Akuvox Smart Intercom

E16/A05 Wall-mounting Installation Quick Guide

Unpacking

Please make sure the package contains the following items:

Universal Accessories:

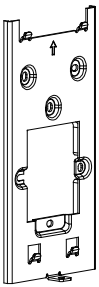
- A05/E16 x 1
- Wall-mounting bracket x 1
- M2.5x6 crosshead screw x 4
- Diode x 1
- M4x30 crosshead screw x 4
- Sealing pressing plate x 1
- Torx Wrench x 1
- M3x6 torx head screw x 7
- Plastic wall anchor x 4
- Wiring cover x 1
- Rubber Plug x 3 (S,M,L)
- ST4x20 crosshead screw x 6

Digital Temperature Detector Accessories (Optional):

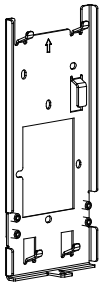
- Digital Forehead Temperature Detecor x 1
- Digital Wrist Temperature Detecor x 1
- M3x10.5 hex socket screw x 2
- M3x4 crosshead screw x 2
- Allen Wrench x 1

Product Overview





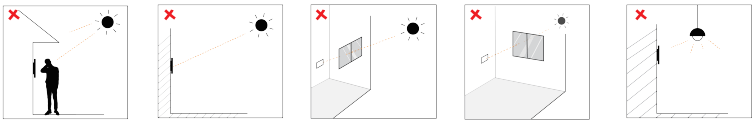
The bracket for the device with no temperature detector



The bracket for the device with no temperature detector

Installation Environment

Please do not place device under direct sunlight, it wil bring bad effect or be broken with high temperature.
If installing the device indoors, please keep device at least 2 meters away from light, and at least 3 meters away from window and door.



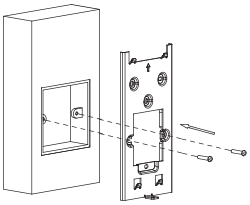
Attention:
Biometric recognition product may not be considered 100% to fit in any identification application.
For hiaher security purpose or scenario, please set up access authentication combination.

Installation

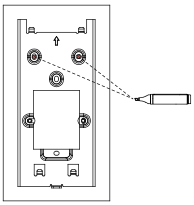
1.Step 1: Wall-mounting Bracket Installation

1.1 With embedded one-gang junction box (86x86 mm or 2x3 inches in size) in the wall

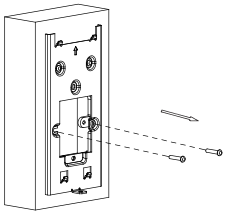
1.1.1 With 86x86 mm embedded junction box in the wall



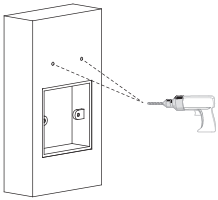
Fix the wall-mounting bracket on the embedded box with two M4x30 crosshead screws.



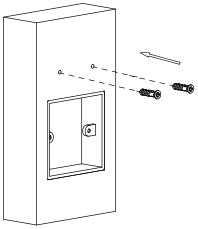
Mark the two positioning holes of the wall-mounting bracket on the wall.
Note: the positioning holes should be marked in the center of the holes.



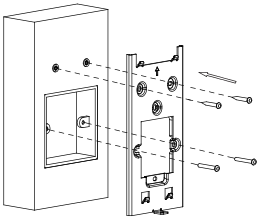
Remove the two M4x30 crosshead screws and take off the wall-mounting bracket.



Use a hand drill with 6 mm diameter bit to make two positioning holes with 25 mm in depth in the marked positions.

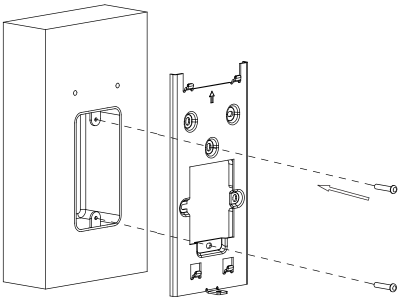


Insert two plastic wall anchors into the two drilled holes.

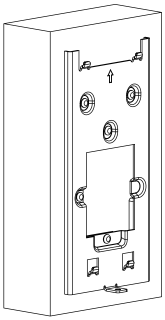


Fix the wall-mounting bracket with two M4x30 crosshead screws and two ST4x20 crosshead screws.

1.1.2 With 2x3 inches embedded single-gang box in the wall

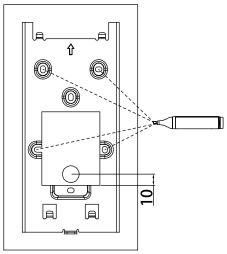


Fix the wall-mounting bracket on the single-gang junction box with the two M4x30 crosshead screws.



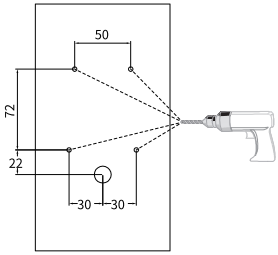
Finish the bracket installation.

1.2 Without embedded gang box in the wall

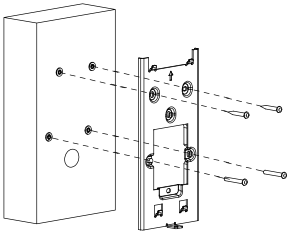


According to the position of the cable, put the wall-mounting bracket closely on to the wall and mark the four positioning holes,while making sure that relative positions between wall-mounting bracket and wire hole are correct.

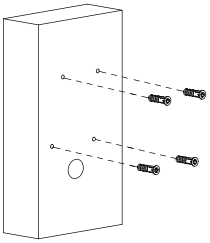
Note: The positioning holes should be marked in the center of the holes.



Take off the wall-mounting and drill the four marked positioning holes and the wire holes using 6 mm hand drills.



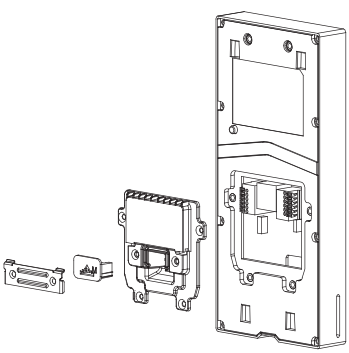
Fix the wall-mounting bracket with four ST4x20 crosshead screws.



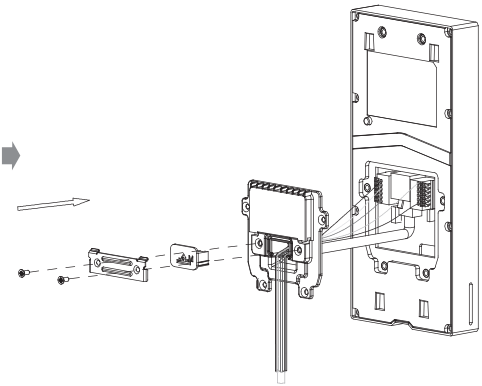
Insert four plastic wall anchors into the holes.

2.Step 2: Device Installation

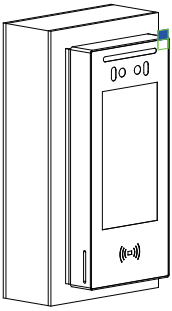
2.1 Device Installation without Digital Forehead or Wrist Temperature Detector



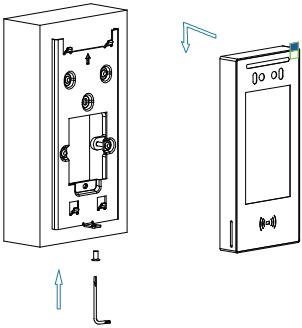
Take out the device along with the wiring cover,sealing pressing plate,rubber plug and corresponding screws.



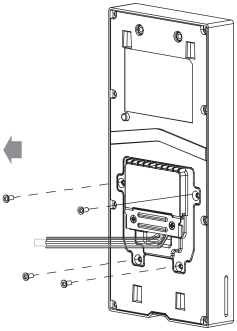
Lead the wires from the wall-mounting bracket and the detector through the square hole on the wiring cover, connecting them to the corresponding interface of the main board, Select a suitable size rubber plug to push all the cables into the wiring cover. Fix sealing pressing plate to the wiring cover with two M2.5x6 crosshead screws.



And please remove the protective film.Installation is completed.

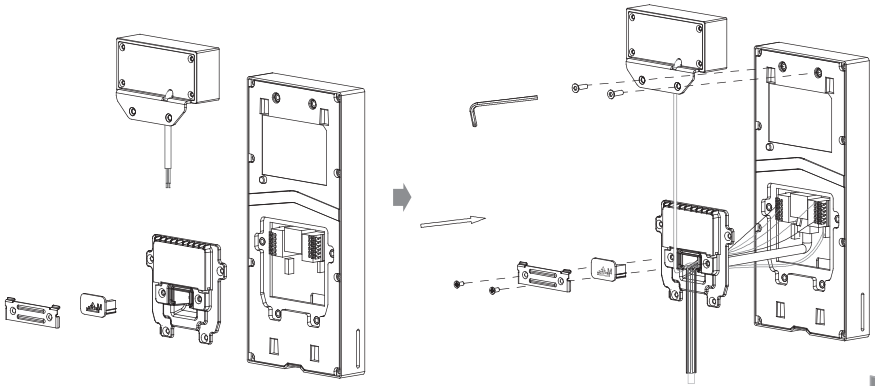


Hang the device on to the square hanger on the wall-mounting bracket, pull down the device to make it fall completely on to the square hanger on the wall-mounting bracket,then use the torx wrench attached to tighten the device with the M3x6 torx head screw.



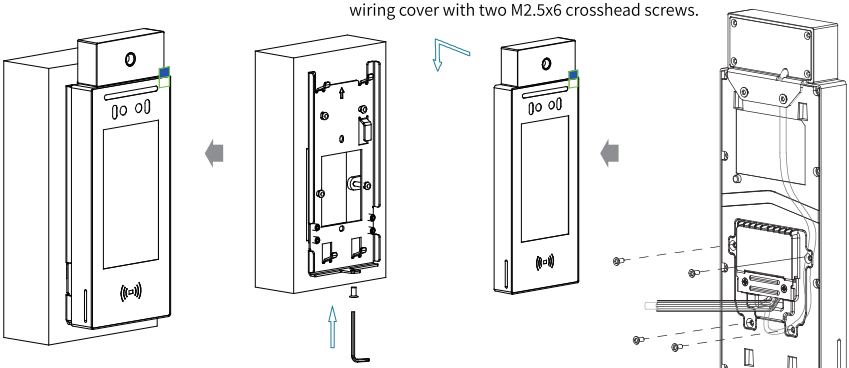
Fasten the wiring cover with four M3x6 torx head screws using the torx wrench attached.

2.2 Device Installation with Digital Forehead Temperature Detector (Optional)



Take out device and the digital forehead temperature detector and then take out wiring cover, sealing pressing plate, rubber plug and corresponding screws.

Fasten the detector on to the nuts on the device's wiring cover with two M3X10.5 hex socket screws using the allen wrench attached,and lead the wires from the wall-mounting bracket and the detector through the square hole on the wiring cover, connecting them to the corresponding interface of the main board.And then select a suitable size rubber plug to push all the cables into the wiring cover. Fix sealing pressing plate to the wiring cover with two M2.5x6 crosshead screws.

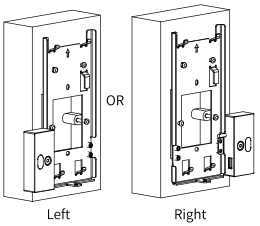


And please remove the protective film. Installation is completed.

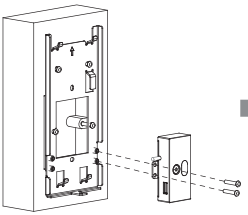
Hang the device on to the square hanger on the wall-mounting bracket, pull down the device to make it fall completely on to the square hanger on the wall-mounting bracket, then use the torx wrench attached with to tighten the device with the M3x6 torx head screw.

Fasten the wiring cover with four M3X6 torx head screws using the torx wrench attached.

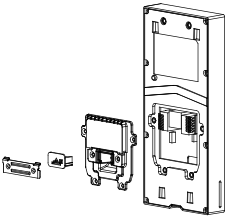
2.3 Device Installation with Digital Wrist Temperature Detector (Optional)



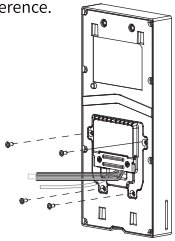
Fix the two holes of the detector onto the installation pins on the wall-bracket either on the left or right according to your preference.



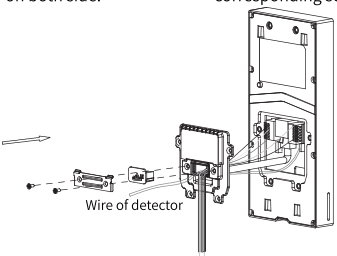
Tighten the detector on to the inner threaded bolt with two M3x4 crosshead screw using the allen wrench attached in the same way on both side.



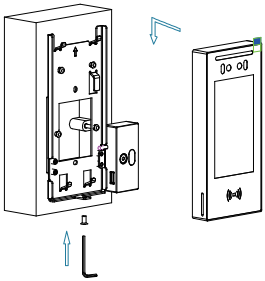
Take out the device along with the wiring cover, sealing pressing plate, rubber plug and corresponding screws.



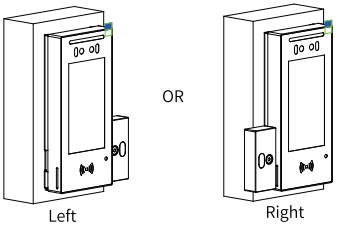
Fasten the wiring cover with four M3x6 torx screws using the torx wrench attached.



Lead the wires from the wall-mounting bracket and the detector through the square hole on the wiring cover, connecting them to the corresponding interface of the main board. And then select a suitable size rubber plug to push all the cables into the wiring cover. Fix sealing pressing plate to the wiring cover with two M2.5x6 crosshead screws.

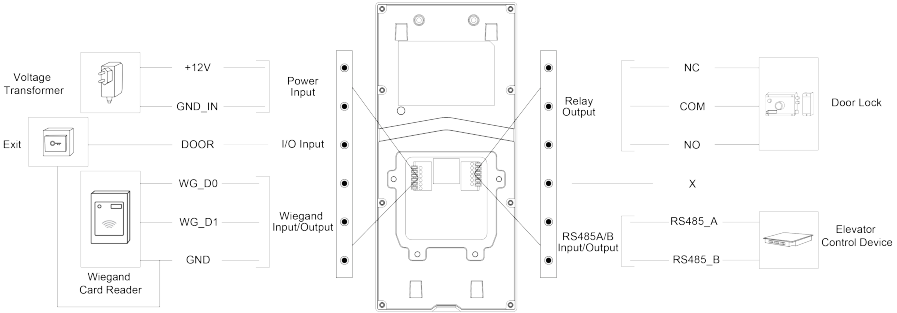


Hang the device on to the square hanger on the wall-mounting bracket, pull down the device to make it fall completely on to the square hanger on the wall-mounting bracket, then use the torx wrench attached to tighten the device with the M3x6 torx head screw.



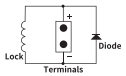
And please remove the protective film. Installation is completed.

Device Wiring



Warning

When you connect a device containing a coil, such as a relay or an electromagnetic lock, it is necessary to protect the intercom against voltage peak while switching off the induction load. For this way of protection we recommend a diode 1A/200V (included in the accessories) connected antiparallel to the device.

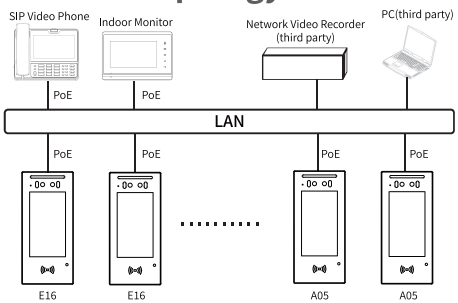


Wire Length & AWG Table

Please follow the properly measured wire gauge/length to install device:

	20 AWG	22 AWG	24 AWG	26 AWG
12V 1A Adapter	⩽20m	⩽10m	/	/

Application Network Topology



Configuration

1. **IP address Checking:** Long press any where on the initial screen for approximately five seconds to go to project PIN screen where you enter the default PIN **"admin"** and press **Confirm** tab to go to Setting screen where you press **Info** icon to check for the device IP address.(for E16 series door phone only)
2. **Account Registration:** On the web interface, go to the path **Account > Basic** page to register and fill in the account information. (please refer to user manual for more information)
3. **DTMF code configuration:** On the web interface, go the path: **Access Control>relay** to set up the DTMF code in the corresponding area.

Operation

Make a call:
Press **Dial icon** into the dial interface, and enter the IP or SIP number and press **Dial key** to make a call (for E16 series door phone only).
Receive a call:
E16 supports Auto Answer by default. Incoming call from indoor device will be answered automatically.
Unlock by DTMF:
During the call, press the corresponding DTMF code from the answer unit to unlock E16 remotely.
Unlock by RF Card:
Place the predefined RF card in the card reader area to open the door.

Notice Information

Akuvox E16/A05 firmware contains third-party open source software under the terms of the GNU General Public License (GPL). Akuvox is committed to meeting the requirements of the GNU General Public License (GPL) and will make all required source code available.

The source code of software under the terms of GNU GPL can be downloaded online: http://www.akuvox.com/gpl.

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www.akuvox.com

YS15000009

Akuvox Smart Intercom

E16/A05 Flush-mounting Installation Quick Guide

Unpacking

Before you start using the device, Please check the product version, and ensure that the following items are included in the shipped box:

Universal Accessories:


E16/A05 x 1


Sealing pressing plate x 1


Wiring cover x 1


Rubber Plug x 3 (S,M,L)

Allen Wrench x 1

M3x6 hex socket screw x 4

M2.5x6 hex socket screw x 2 Diode x 1

Flush-mounting Accessories:


Flush-mounting box x 1

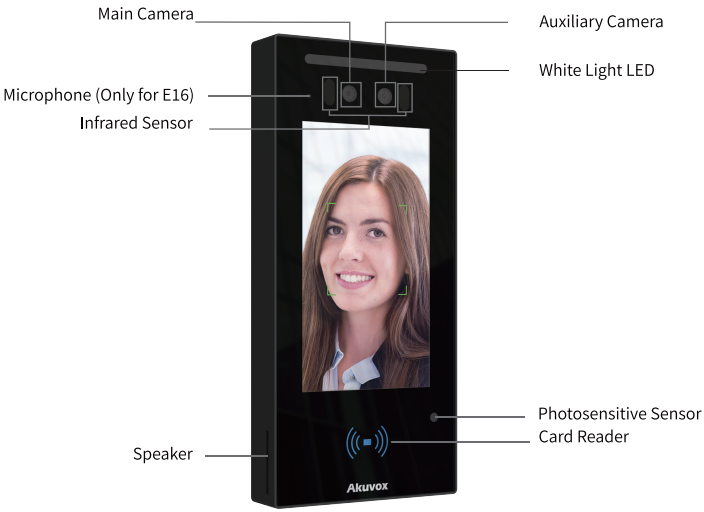

Flush-mounting bracket x 1


Flush-mounting board x 1

M3x8 crosshead screw x 7 ST4x20 crosshead screw x 4 Plastic wall anchor x 4


M4x16 torx head screw x 2 Torx wrench x 1

Product Overview

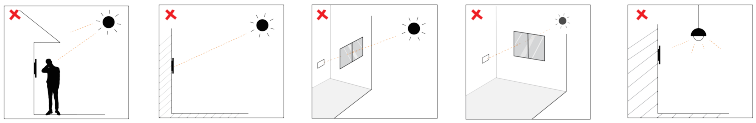


Akuvox Smart Intercom

E16/A05 Flush-mounting Installation Quick Guide

Installation Environment

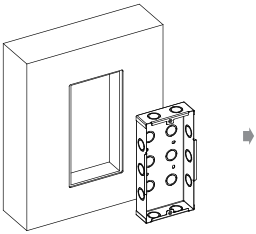
Please do not place device under direct sunlight, it wil bring bad effect or be broken with high temperature.
If installing the device indoors, please keep device at least 2 meters away from light, and at least 3 meters away from window and door.



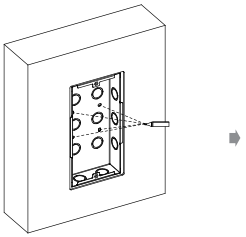
Attention:
Biometric recognition product may not be considered 100% to fit in any identification application.
For hiaher security purpose or scenario, please set up access authentication combination.

Installation

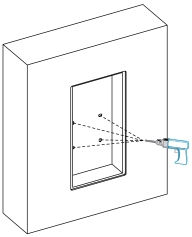
Step 1: Flush-mounting Bracket Installation



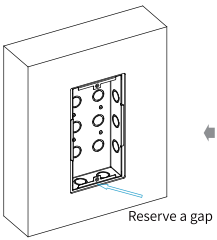
Dig out a square hole (height*width*depth= 225*111*43mm) according to the position of cable.



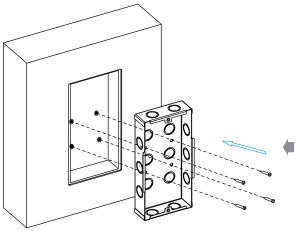
Place the flush-mounting box in the hole,and mark four positioning holes of the flush-mounting bracket on the wall.
Note:The positioning holes should be marked in the center of the holes.



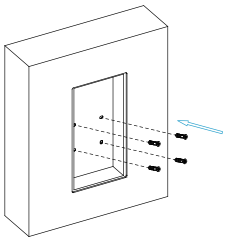
Remove the flush-mounting box, then use an electric drill with a 6mm diameter bit to make four holes with 25mm in depth in the marked holes.



Please make sure that the top edge of flush-mounting box can not over the wall, and need to reserve a gap between the bottom of the box and wall for drainage.

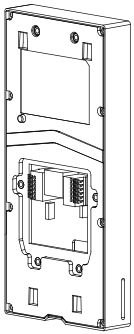


Knock off the cable holes of the flush-mounting box,and lead cables through the hole. Then fix the box with four ST4x20 crosshead screws on the wall.

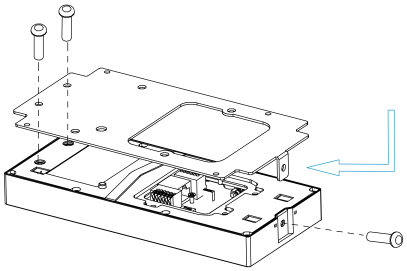


Insert four plastic wall anchors into the drilled holes.

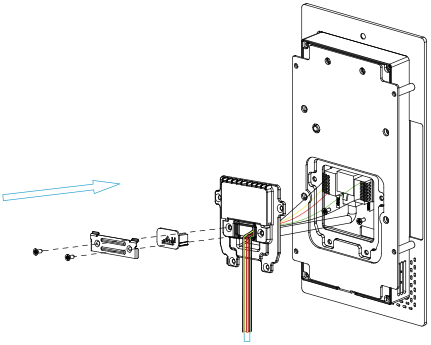
2.Step 2: Device Installation



Take out the device.

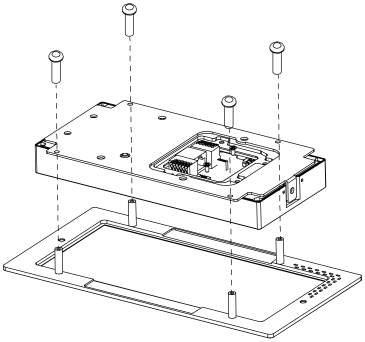


Align the screw holes of the flush-mounting bracket with holes on the back of the device (see the picture).And press up the square hook on the bottom of bracket against the groove on the bottom ofthe device.Then use three M3x8 crosshead screws to fasten the bracket on the device.

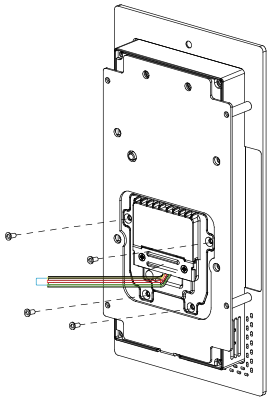


Lead the cables from the flush-mounting box through the square hole on the wiring cover, connecting them to the corresponding interface of the main board, and close the wiring cover.Then select a suitable size rubber plug to push all the cables into the wiring cover. Fix sealing pressing plate to the wiring cover with two M2.5x6 hex socket screws.

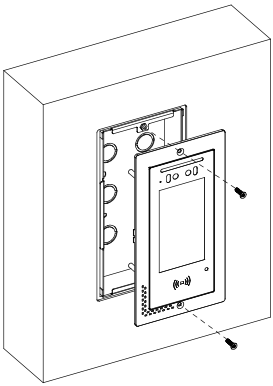
Note: If the cables are less than 6, please use S size rubber plug; if the cables are more than 6 but less than 10, please use M size rubber plug; if the cables are more than 10, please use L size rubber plug.



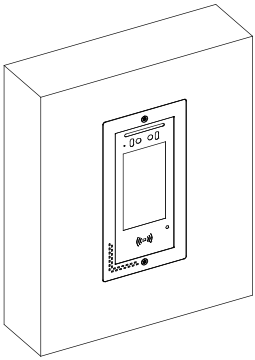
Align the screw posts of the flush-mounting board with the screw holes of flush-mounting bracket. Then fix them with four M3x8 crosshead screws.



Use four M3x6 hex socket screws to fasten the wiring cover on the device.

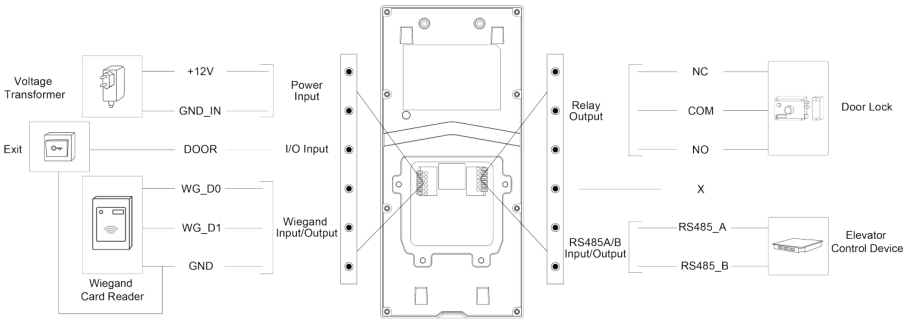


Align the holes of the flush-mounting board with the holes on the flush-mounting box (see the picture),and use two M4x16 torx head screws to fix them.



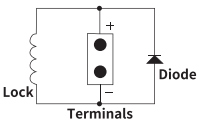
Check whether the flush-mounting board covers the gap around the flush-mounting box. And power on the device to confirm whether is normal. Then the installation is done.

Device Wiring



Warning

When you connect a device containing a coil, such as a relay or an electromagnetic lock, it is necessary to protect the intercom against voltage peak while switching off the induction load. For this way of protection we recommend a diode 1A/200V (included in the accessories) connected antiparallel to the device.

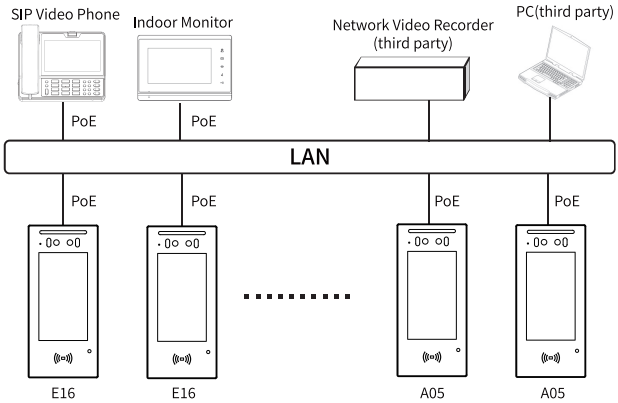


Wire Length & AWG Table

Please follow the properly measured wire gauge/length to install device:

	20 AWG	22 AWG	24 AWG	26 AWG
12V 1A Adapter	⩽20m	⩽10m	/	/

Application Network Topology



Configuration

1. IP address Checking: Long press anywhere on the initial screen for approximately five seconds to go to project PIN screen.Then enter the default PIN **"admin"** and press **Confirm** tab to go to **Setting** interface.Press Info icon to check for the device IP address (for E16 series door phone only).
2. Account Registration: On the web interface, go to the path **Account > Basic** page to register and fill in the account information (please refer to user manual for more information).
3. DTMF Code Configuration: On the web interface, go the path: **Access Control>Relay** to set up the DTMF code in the corresponding area.

Operation

Make a call:
Press **Dial icon** into the dial interface, and enter the IP or SIP number and press **Dial key** to make a call (for El6 series door phone only).
Receive a call:
E16 supports Auto Answer by default. Incoming call from indoor device will be answered automatically.
Unlock by DTMF:
During the call, press the corresponding DTMF code from the answer unit to unlock E16/A05 remotely.
Unlock by RF Card:
Place the predefined RF card in the card reader area to open the door.

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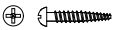
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Akuvox Smart Intercom

E16/A05 Rain Cover Quick Guide

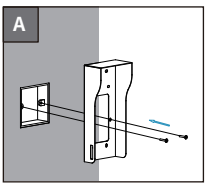
Unpacking

Before using the device, check the device model and ensure that the shipped box includes the following items:

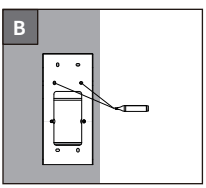
1 X	2 X	4 X	4 X
			
Rain cover	M4X30 crosshead screw	M4X20 crosshead screw	Plastic wall anchor

Installation

1. With 86x86 mm junction box

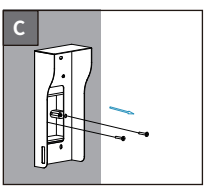


Fix the **rain cover** on the embedded box with two **M4x30 crosshead screws**.

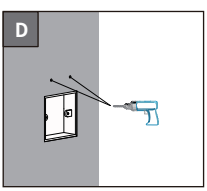


Mark the two holes of the **rain cover** on the wall.

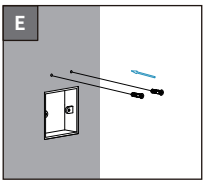
Note:
- The positioning holes should be marked in the center of the holes.
- Additional hole positions can be marked as needed during installation.



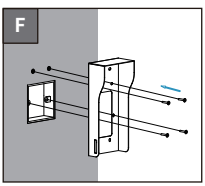
Remove the two **M4x30 crosshead screws** and take off the **rain cover**.



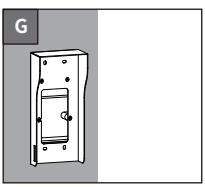
Use a 6mm hand drill with to make two holes with 25mm in depth in the marked positions. Other holes also can be drilled according to the installation requirements.



Insert two **plastic wall anchors** in to the two drilled holes.

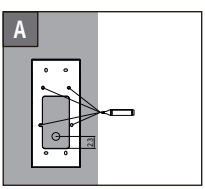


Fix the **rain cover** with two **M4x30 crosshead screws** and two **ST4x20 crosshead screws**.



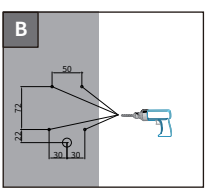
The installation is done.

2. Without electrical junction box in the wall

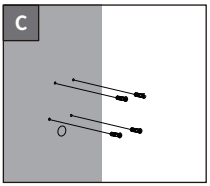


Align the **rain cover** with cable position on wall, mark four holes, ensure correct alignment with wire hole.

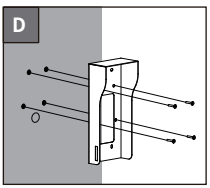
> Note:
> the positioning holes should be marked in the center of the holes.



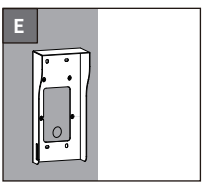
Remove the **rain cover**, drill marked holes with 6mm hand drill.



Insert four **plastic wall anchors** into the holes.



Fix the **rain cover** with four **ST4x20 crosshead screws**.



The installation is done.

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