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E16 SERIES DOR PHONE Administrator Guide

Version: 1.0 | Date: April.2021

About This Manual

Thank you for choosing Akuvox E16 series door phone. This manual is intended for the administrators who need to properly configure the door phone. This manual applies to 116.30.0.43 version, and it provides all the configurations for the functions and features of E16 series door phones. Please visit Akuvox forum or consult technical support for any new information or the latest firmwares.

Introduction of Icons and Symbols

Warning:

• Always abide by this information in order to prevent the persons from injury.

Caution

• Always abide by this information in order to prevent the damages to the device.

Note:

• Informative information and advice from the efficient use of the device.

) Tip:

• Useful information for the quick and efficient use of the device.

Related Documentation

You are advised to refer to the related documents for more technical information via the link below:

http://wiki.akuvox.com

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1. Product Overview

Akuvox E16 series is an Android-based IP video door phone with a touch screen. It incorporates audio and video communications, access control, and video surveillance. Its finely-tuned Android OS, SmartPlus and AI-based communication technology allow featured customization to better suit your operation habit. E16 series multiple ports, such as RS485 and Wiegand ports, can be used to easily integrate external digital systems, such as elevator controller and fire alarm detector, helping to create a holistic control of building entrance and its surroundings and giving you a great sense of security via a variety of access such as card access, NFC, Bluetooth, QR code and newly added door access in an accompaniment with body temperature measurement. E16 series door phone applies to residential buildings, office buildings, and their complex.



2. Change Log

The change log will be updated here along with the changes in new software version.



3. Model Specification

	E16C
Model & Feature	((=)) Ακινοχ
Display	5″ IPS
Touch Screen	\checkmark
Button	X
Housing Material	Plastic
Relay Out	1
Alarm In	1
RS485	√
PoE	√
Resolution	1280x720
Brightness	500cd/m ²
RAM	1GB
ROM	8GB
Card Reader	13.56MHz
Wi-Fi	X
Bluetooth	√
IP Rating	IP65
Temperature	Optional
Detection	
Face recognition	√
LTE	X
USB	Х
External SD Card	X



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Wall Mounting	\checkmark
Flush Mounting	\checkmark
Desk Mounting	Х
POE Stand by Power	5.5W
POE Full Load Consumption	9.8W
Power Adapter Standby Power	5.5W
Power Adapter Full Load Consumption	10W
Color Option	Black



4. Introduction to Configuration Menu

- **Status**: this sections gives you basic information such as product information, Network Information, and account information etc.
- Account: this section concerns SIP account, SIP server, proxy server, transport protocol type, outbound proximity server.
- **Network**: this section mainly deals with DHCP&Static IP setting, and device deployment etc.
- Intercom: this section covers Intercom call setting, call log etc.
- **Surveillance**: this section includes audio&video related settings such as Live stream, RTSP, ONVIF, MJPEG.
- Access Control: this section includes input type setting, relay setting, door access control in terms private PIN code, Facial recognition, RF card, and BLE setting as well log related configurations such as door log and temperature log.
- **Setting**: this second deals with time &language setting, security notification settings and door prompt text setting.
- **Phone**: this section includes Time&language, call feature, dial management, data import&export, door log, web relay.
- **Upgrade**: this section covers Firmware upgrade, device reset&reboot, configuration file auto-provisioning, PCAP.
- **Security**: this section is for Password modification, tamper alarm, and web interface automatic-logout.
- **Device**: this section concerns LED light setting, ODSP Setting, screen saver setting, sound&volume setting and third-party integration in terms of integration via Wiegand, RS485.



• Mode selection :

- 1. **Discovery mode**: It is a plug and play configuration mode. Akuvox devices will configure themselves automatically when users power on the devices and connect them to network. It is super time-saving mode and it will greatly bring users convenience by reducing manual operations. This mode requires no prior configurations previously by the administrator.
- 2. **SmartPlus mode:** Akuvox SmartPlus is an all-in-one management system. Akuvox SmartPlus is the mobile service that allows audio, video, remote access control between smart phones and Akuvox intercoms. All configurations in the device will be issued automatically from cloud. If users decide to use Akuvox Smartplus please contact Akuvox technical support, and they will help you configure the related settings before using.
- **3. SDMC mode**: SDMC (**SIP Device Management Controller**) is a simple and comprehensive software for building management. It provides a topography for a community while offering you a graphical configuration interface for the door access, intercom, monitoring, alarm etc.,. It is a convenient tool for property manager to manage , operate and maintain the community.

• Tool selection

Akuvox has many configuration tools for you to set up devices more conveniently. Here we list some common tools, please contact your administrator to get the tool if you need them.

- 1. **SDMC**: SDMC is suitable for the management of Akuvox devices large communities, including access control, resident information, remote device control etc.,.
- 2. **Akuvox Upgrade tool**: Upgrade Akuvox devices in batch on a LAN (**Local Area Network**).
- 3. **Akuvox PC Manager**: Distribute all configuration items in batch on a LAN.
- 4. **IP scanner**: it is used to search Akuvox device IP addresses on a LAN.
- 5. **FacePro**: Manage face data in batch for the door phone on a LAN.

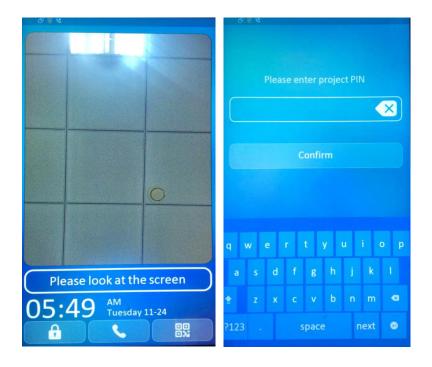


5. Access the Device

E16 series door phone system setting can be either accessed on the device directly or on the device web interface.

5.1. Access the Device Setting on the device

If you want to access the device setting in order to configure and adjust the parameters, you can do it directly on the device. To access the device setting, you can long press where on the initial screen for approximately five seconds, then enter the default PIN code "admin" and press Confirm.



5.2. Access the Device Setting on the Web Interface

You can also use Akuvox IP scanner tool to search the device IP address in the same LAN. Then enter the device IP address on the web browser in order to log in the device web interface where you can configure and adjust

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parameter etc. Then use the IP address to login in the web browser by user name and password **admin** and **admin**.

	Akuvox	
	Luser Name	
	Password	
	Remember Username/Password	
(Login	



 You can also obtain the device IP address using the Akuvox IP scanner to log in the device web interface. Please refer to the URL below for the IP scanner application:

http://wiki.akuvox.com/doku.php?id=tool:ip_scanner&s[]=ip&s[]= scanner

Note:

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- Google Chrome browser is strongly recommended.
- The Initial user name and password are "**admin**" and please be case-sensitive to the user names and passwords entered.



6. Time and Language Setting

6.1. Language Setting

When you first set up the device, you might need to set the language to your need. You can select the language display the device web Setting > Time/Lang > LCD Language interface.

Time/Lang	Door		
		LCD Language	
	Туре	English	

6.2. Time Setting

Time setting on the web Setting > Time/Lang > Time interface allows you to set up time and date manually while allowing you to use NTP server address that you obtained to automatically synchronize your time and date. And when your time zone is selected, the device will automatically notify the NTP server of its time zone so that the NTP server can synchronize the time zone setting in your device.

Enabled	
Date	mm/dd/yyyy
Time	: O
Time Zone	GMT-5:00 Toronto
Primary Server	0.pool.ntp.org
Secondary Server	1.pool.ntp.org
Update Interval	3600

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- **Time Zone:** select the specific time zone depending on where the device is used and then press **Confirm** tab for the confirmation. The default time zone is GMT+0.00.
- **Primary Server**: enter the primary NTP server you obtained in the **NTP Server** field.
- Secondary Server: enter the secondary NTP server you obtained in the NTP Server field to be used as a backup.
- **Update Interval**: set the automatic time update via NTP server.



 When the check box is not ticked, the parameters related to NTP server will become unedited.

6.3. LED Setting

6.3.1. Configure Card Reader LED Setting

You can enable or disable the LED lighting on the card reader area as needed on the web interface. Meanwhile, If you do not want to have the LED light on the card reader area to stay on, you can also set the timing for the exact time span during which the LED light can be disabled in order to reduce the electrical power consumption. To configure the configuration on web **Setting > Time/Lang > Time** Interface.



Light	Wiegand	RS485	Voice	LCD	
		LED	Of Swiping Card Are	a	
	Enabled				
	Start Time -	End Time	18	- 06 (0~23 Hour)	

Parameter set-up:

- **Enabled**: tick the check box if want to enable the card reader LED lighting and vice versa.
- Start Time End Time (H): enter the time span for the LED lighting to be valid, e.g. if the time span is from 18-22 it means LED light will stay on during the time span from 6:00 pm to 10:00 pm during one day (24 hours).

6.3.2. Configure LED White Light Setting

LED White light is used to reinforce the lighting for facial recognition as well as for the QR code access as needed in the dark environment. To configure the configuration on web **Device > Light > White Light** interface.

м	/hite Light
Mode	Auto
Max White Light Value	3 🔻
Submit	Cancel

Parameter Set-up:

- Mode: select "Auto" or "OFF". If you select " Auto" then the white light will turn on for 5 minutes for facial recognition and QR code scan. And if you select "Off" then the white light will be turned off.
- Max White Light Value: set the white light value from 1-5, and the default white light value is "3". The greater value it is, the brighter the light will

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) Note:

• IR LED light should be triggered first before the white light can be valid in the facial recognition, however IR LED light does not need to be triggered for the white light function in the QR code scan.

6.4. Screen Display configuration

E16 series door phones allow you to enjoy a variety of screen displays to enrich your visual and operational experience through the customized setting to your preference.

6.4.1.Configure Screensaver

Await screen is mainly a function for the screen protection. You can make the device to go into idle status for a predefined time span when there is no operation on the device, or no one is detected approaching. To configure the configuration on web **Device > LCD > Standby Interface Display** interface.

Standby Interface Display		
ScreenSaver Mode		
Sleep	15seconds 🔹	
Screensaver Time	15seconds	

Parameter Set-up

- ScreenSaver Mode: tick the check box to enable the screen saver function.
- Sleep: set the screen saver start time range from "5" seconds to " 30" minutes For example, if you set it as " 15 seconds" then the device will go into screen saver mode in 15 second when when there is no operation on the device or no one is detected approaching.

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6.4.2.Upload Screensaver

You can upload screensaver pictures separately or in batch to the device and to the device web interface for publicity purpose or for a greater visual experience. To configure the configuration on web **Device > LCD > Upload ScreenSaver** interface. You can upload a maximum of 5 pictures, and each picture will be displayed in rotation according to the ID order with specific time duration (**Time Interval**) you set.

	Please Choose ScreenSaverID-for upload:	Screen Saver1	•
Screen Saver1	Not selected any files Select File	→ Import	
ScreenSaver ID	File Status	Interval (Sec)	Delete
1	File Exists	5	Delete 💼
2	File Exists	5	Delete 💼
3	File Exists	5	Delete 💼
4	File Exists	5	Delete 💼
5	File Exists	5	Delete 💼



6.5. Volume & Tone Configuration

Volume and tone configuration in E16 door phone refers to the Call volume, the AD volume, key volume and Mic volume and open door tone configuration. Moreover, you can upload the tone you like to enrich your personalized user experience.

6.5.1.Volume Configuration

You can configure the Mic volume, speaker volume and temper alarm volume according to your need for the intercom-based audio&video communication. More over, you can also set up the tamper alarm volume when unwanted removal of the door phone occurs. To set up the volumes on the device, you can go to **Device > Voice > Volume Control** interface.

Light	Wiegand	RS485	Voice	LCD	
			Volume Control		
	Mic Volume			8	(0~15)
	Speaker Volu	me		8	(0~15)
	Ring Volume			8	(0~15)
	Tamper Alarn	n Volume		8	(0~15)

- Mic Volume: set the mic volume from 0-15 according to your need. The default volume is "8".
- **Speaker Volume:** set the speaker volume from 0-15 according to your need. The default volume is **"8**".
- **Ring Volume: s**et the ring volume from 0-15 according to your need. The default volume is **"8**".
- **Tamper Alarm Volume:** set the tamper alarm volume from 0-15 according to your need. The default volume is "**8**".



6.5.2.Upload Open Door Tone

You can upload the Open-Door Tone on the device web interface.To configure the configuration on web **Device > Voice > Open Door Tone Setting** interface.

	Open Door Tone Sett	ing		
Open Door Tone Setting				
Open Door Tone Upload	Not selected any files	Select File	→ Import	Reset

6.5.3. Configure Door Access Prompt Text

You can enable or disable the door access prompt to be shown on the access control terminal screen for door open failure and success. To configure the configuration on web **Setting > Door > Open Door Succeeded Text Prompt** interface.

Time/Lang	Door		
	Open Door Succes	ded Text Prompt	
	Open Door Succeeded Text Prompt		
	Open Door Failed Text Prompt		
	Submit	Cancel	

- **Open Door Success:** tick the check box if you want to see the text prompt after the door open success and vice versa.
- **Open Door Failed:** tick the check box if you want to see the prompt words after the door open failure and vice versa.



7. Network Setting

7.1. Device Network Connection Setting

You can configure the default DHCP mode (**Dynamic Host Configuration Protocol**) and static IP connection. Moreover, you can set up IP address, Subnet Mask, Default Gateway, LAN DNS1 & LAN DNS2. To configure the configuration on web **Network > Ethernet > LAN Port** interface.

	LAN Port
DHCP	Static IP
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
LAN DNS1	8.8.8.8
LAN DNS2	
Submit	Cancel
	IP Address Subnet Mask Default Gateway LAN DNS1 LAN DNS2

- **DHCP**: select the **DHCP** mode by checking off the DHCP box. DHCP mode is the default network connection. If the DHCP mode is selected, then the door phone will be assigned by the DHCP server with IP address, subnet mask,default gateway,and DNS server address automatically.
- Static IP: select the static IP mode by checking off the DHCP check box. When static IP mode is selected, then the IP address, subnet mask, default gateway, and DNS servers address have to be manually configured according to your actual network environment.
- **IP Address**: set up the IP Address if the static IP mode is selected.
- Subnet Mask: set up the subnet mask according to your actual network



environment.

- **Default Gateway**: set up the correct gateway default gateway according to the IP address of the default gateway.
- DNS1/DNS2: set up DNS1/ DNS2 (Domain Name Server)according to your actual network environment. DNS1 is the primary DNS server address while the DNS2 is the secondary server address and the door phone connects to DNS2 server when the primary DNS server is unavailable.

7.2. Device Deployment in Network

Access control terminals should be deployed before they can be properly configured in the network environment in terms of their location, operation mode, address and extension numbers as opposed to other devices for the device control and the convenience of the management. To configure the configuration on web **Network > Advanced > Connect Setting** interface.

Basic	Advanced	
		Connect Setting
	Server Mode	None
	Discovery Mode	Enabled 🔹
	Device Address	
	Device Extension	1 (1-9)
	Device Location	
	Submit	Cancel

Parameter Set-up:

• Server Mode: it is automatically set up according to the actual device connection with a specific server in the network such as SDMC or Cloud and None. None is the default factory setting indicating the device is not in any server type, therefore you are allowed to choose Cloud, SMDC in discovery mode.



- **Discovery Mode:** go to "**Enabled**" to turn on the discovery mode of the device so that it can be discovered by other devices in the network, and go to "**Disabled**" if you want to conceal the device so as not to be discovered by other devices.
- **Device Address:** specify the device address by entering device location information from the left to the right :**Community, Unit, Stair, Floor, Room** in sequence.
- **Device extension**: enter the device extension number for the device you installed
- **Device Location**: enter the location in which the device is installed and used.

7.3. NAT Setting

In order to speed up the communication between the door phone and the SIP server, you can configure the NAT setting (**Network Address Translation**) on the web **Account > Advanced > NAT** interface.

	NAT	
RPort	Disabled	

Parameter Set-up:

• **RPort**: enable the Rport when the SIP server is in WAN (Wide Area Network).



8. Intercom Call Configuration

Intercom call in the device can be configured to allow you to perform a variety of customized intercom calls such as IP call and SIP call for different application scenarios.

8.1. IP call & IP Call Configuration

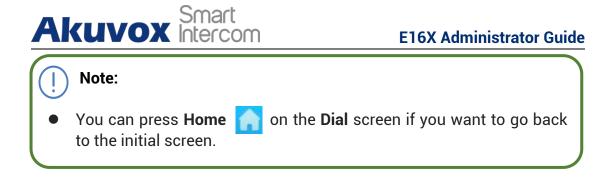
IP call can be made directly on the intercom device by entering the IP number on the device. And you can also disable the direct IP call if you allow no IP call to be made on the device.

8.1.1.Make IP calls

To make directly IP call on the device, you can press the dial <u>c</u>icon, then enter the IP or SIP number and press the **Call** <u>c</u>icon to call out.

0.0.6		
		er to call
		$\langle \times \rangle$
1		3
	5	6
	8	9
*	0	#
Recep	otion	

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8.1.2.IP Call Configuration

To configure the IP call on the device web **Basic > Direct IP** interface.

Basic	Call Feature			
		Direct IP		
	Enabled			
	Port	50	060	(1~65535)

Parameter Set-up:

- **Direct IP Call**: go to "**Enable**" or "**Disable**" to turn the direct IP call on or off. For example if you do not allow direct IP call to be made on the device, you can go to" **Disable**" to terminate the function.
- **Direct IP Port**: the direct IP Port is "**5060**" by default with the port range from **1-65535**. And you enter any values within the range other than the 5060, you are required to check if the value entered is consistent with the corresponding value on the device you wish to establish a data transmission with.

8.2. SIP Call & SIP Call Configuration

You can make SIP call (**Session Initiation Protocol**) in the same way as you do for making the IP calls on the device. However, SIP call parameters related to its account, server, and transport type need to configured first before you can make calls on the device.



8.2.1.SIP Account Registration

E16 series door phones support two SIP accounts that can all be registered according to your applications. The SIP account can be configured on the device interface. To perform the SIP account setting on the web **Account > Basic > SIP Account** Interface.

Basic	Advanced		
		SIP Account	
	Status	Disabled	
	Account Active	Disabled	
	Display Label		
	Display Name		
	Register Name		
	User Name		
	Password	•••••	

- **Status:** check to see if the SIP account is registered or not.
- Account Active: go to "Enable" or "Disable" to activate or deactivate the registered SIP account.
- **Display Name:** configure the name, for example the device's name to be be shown on the device being called to.
- **Display Label:** configure the device label to be shown on the device screen.
- **Register Name:** enter the SIP account register Name obtained from the SIP account administrator.
- User Name: enter the user name obtained from SIP account administrator.
- **Password:** enter the password obtained from the SIP account administrator.



8.2.2.SIP Server Configuration

SIP servers can be set up for device in order to achieve call session through SIP server between intercom devices. To set up SIP server, you can go to **Account > Basic > Preferred SIP Server**.

Preferred SIP Server			
Server IP		Port	5060
Registration Period	1800		
Alterna	ate SIP Server		
Server IP		Port	5060
Registration Period	1800		

Parameter Set-up:

- **Preferred SIP Server.** enter the primary server IP address number or its URL.
- Alternate SIP Server: enter the backup SIP server IP address or its URL.
- **Port:** set up SIP server port for data transmission.
- Registration Period: set up SIP account registration time pan. SIP re-registration will start automatically if the account registration fails during the registration time span. The default registration period is "1800", ranging from 30-65535s.

8.2.3. Configure Outbound Proxy Server

An outbound proxy server is used to receive all initiating request messages and route them to the designated SIP server in order to establish call session via port-based data transmission. To configure outbound Proxy server, you can go to **Account > Basic > Outbound Proxy Server**.



Disabled 🔻		
	Port	5060
	Port	5060
	Disabled	Port

Parameter Set-up:

- Enable Outbound: go to "Enable" and "Disable" to turn on or turn off the outbound proxy server.
- Server IP. enter the SIP address of the outbound proxy server.
- **Port:** enter the Port number for establish call session via the outbound proxy server
- **Backup Server IP.** set up Backup Server IP for the back up outbound proxy server.
- **Port:** enter the Port number for establish call session via the backup outbound proxy server.

8.2.4. Configure Data Transmission Type

SIP message can be transmitted in three data transmission protocols: UDP (User Datagram Protocol), TCP(Transmission Control Protocol),TLS (Transport Layer Security) and DNS-SRV. In the meantime, you can also identify the server from which the data come from. To do the configuration , you can go to Account > Basic > Transport Type.

TransportType UDP	TransportType	
	TransportType	UDP 🔻



- UDP: select "UDP" for unreliable but very efficient transport layer protocol. UDP is the default transport protocol.
- TCP: select "TCP" for Reliable but less-efficient transport layer protocol.
- **TLS**: select "**TLS**" for Secured and Reliable transport layer protocol.
- **DNS-SRV**: select "**DNS-SRV**" to obtain DNS record for specifying the location of servers. And **SRV** not only records the server address but also the server port. Moreover, SRV can also be used to configure the priority and the weight of the server address.

8.3. Call Auto-answer Configuration

You can define how quick the door phone should response in answering the incoming SIP/IP call automatically by setting up the time related parameters. In addition, you can also define the mode in which the calls are to be answered (video mode or audio mode). To do the configuration, you can go to **Account > Advanced > Call** to **Enable** or **Disable** in **Auto Answer** and Set up auto-answer delay time.

Call						
Auto Answer	Disabled 💌					
Auto Answer Delay	0					
Auto Answer						
Auto Answer Delay	0	(0~5 Sec)				
Mode	Audio 💌					
Submit	Cancel					

- Auto Answer: turn on the the Auto Answer function by go toing "Enable".
- Auto Answer Delay: set up the delay time (from 0-5 sec.) before the call an be answered automatically. For example, if you set the delay time as 1 second, then the call will be answered in 1 second automatically.



 Auto Answer Mode: set up the "Video" or "Audio mode" you preferred for the automatic call answering.

8.4. Call Settings

8.4.1. Maximum Call Duration Setting

E16 series door phone allows you to set up the call time duration in receiving the call from the calling device as the caller side might forget to hang up the phone. When the call time duration is reached, the door phone will terminate the call automatically. To do the configuration, you can go to **Intercom > Call Feature > Max Call Time**.

Basic	Call Feature						
	Max Call Time						
	Max Call Time	5	(2~30 Min)				

Parameter Set-up:

• Max Call Time: enter the call time duration according to your need (Ranging from 2-30 min.). The default call time duration is 5 min.

8.4.2. Maximum Dial Duration Setting

Maximum Dial duration is consisted of Maximum dial-in time duration and the maximum dial-out time. Maximum dial in time refers to the maximum time duration before the door phone hang up the call if the call is not answered by the door phone. In contrary, Maximum dial-out time refers to the maximum time duration before the door phone hang up itself automatically when the call from the door phone is not answered by the intercom device being called to. To do the configuration, you can go to **Intercom > Call Feature> Max Dial Time**.



Max Dial Time					
Dial In Time	60	(30~120 Sec)			
Dial Out Time	60	(30~120 Sec)			

Parameter set-up:

- **Dial In Time:** enter the dial in time duration for you door phone (**ranging from 30-120 sec.**) for example, if you set the dial in time duration is 60 second in your door phone, then the door phone will hang up the incoming call automatically if the call is not answered by the door phone in 60 seconds. 60 seconds is the dial in time duration by default.
- **Dial Out Time**: enter the dial in time duration for your door phone (**ranging from 5-120 sec**.) for example, if you set the dial out time duration is 60 seconds in your door phone, then the door phone will hang out the call it dialed out automatically if the call is not answered by the device being called to.

8.4.3.Audio& Video Codec Configuration for SIP Calls

8.4.3.1. Configure Audio Codec

E16 series door phone support four types of Codec (PCMU, PCMA, G729, G722) for encoding and decoding the the audio data during the call session. Each type of Codec vary in terms of the sound quality. You can select the specific codec with different bandwidth and sample rate flexibly according to the actual network environment. To do the configuration, you can go to **Account > Advanced > Audio Codecs.**

Disabled C	Codecs	Enabled (Codecs	
	*	PCMU	^	
		PCMA G729		†
	<<	G722		Į.

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Please refers to the bandwidth consumption and sample rate for the four types of codecs below:

Codec Type	Bandwidth	Sample Rate
	Consumption	
РСМА	64 kbit/s	8kHZ
PCMU	64 kbit/s	8kHZ
G729	8 kbit/s	8kHZ
G722	64 kbit/s	16kHZ

8.4.3.2. Configure Video Codec

This series support H.264 codec that provides a better video quality at much lower bit rate with different video quality and payload. To do the configuration, you can go to **Account > Advanced > Video Codec.**

Video Codecs					
Name	✓H264				
Resolution	720P 🔻				
Bitrate	2048 💌				
Payload	104 💌				

- **Name**: check to select the H264 video codec format for the door phone video stream. H264 is the video codec by default.
- **Resolution:** select the code resolution for the video quality among four options:"QCIF", "CIF", "VGA", "4CIF" and "720P" according to your actual network environment. The default code resolution is 4CIF.
- **Bitrate:** select the video stream bit rate (ranging from 320-2048). The greater the bitrate, the data transmitted in every second is greater in amount therefore the video will be clearer. While the default code bitrate is 2048.



• **Payload:** select the payload type (ranging from 90-118) to configure the audio codec payload. The pay load between the door phone and the corresponding intercom device should be identical. The default payload is 104.

8.5. Configure DTMF Data Transmission

In order to achieve the door access via DTMF code or some other applications, you are required to properly configure DTMF in order to establish a DTMF-based data transmission between the door phone and other intercom device for the third party integration. To configure the DTMF data transmission, you can go to **Account > Advanced > DTMF**.

D	TMF
Mode	RFC2833 🔻
How to info DTMF	Disabled 🔻
Payload	101

- Mode: select DTMF mode among five options: "Inband", "RFC2833", "Info+Inband" and "Info+RFC2833" based on the specific DTMF transmission type of the third party device to be matched with as the party for receiving signal data.
- How to Notify DTMF: select among four types: "Disable" " DTMF" "DTMF-Relay" "Telephone-Event" according to the specific type adopted by the third party device. You are required to set it up only when the third party device to be matched with adopts "Info" mode.
- **Payload**: set the payload according the the specific data transmission payload agreed on between the sender and receiver during the data transmission.





9. Relay Switch Setting

9.1. Relay Switch Setting

You can configure the relay switch(es) and DTMF for the door access on the web **Access Control > Relay > Relay** interface.

Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	•
Relay						
	Trigger De	elay(Sec)		0 🔹		
	Hold Delay	y(Sec)		5 🔹		
	DTMF Mod	de	1	Digit DTMF		
	1 Digit DT	MF		0 🔹		
	2~4 Digits	DTMF				
	Relay Stat	us	I	Relay: High		
	Relay Nan	ne		Relay		

- **Trigger Delay (Sec):** set the relay trigger delay timing (Ranging from 1-10 Sec.) For example, if you set the delay time as "5" sec. then the relay will not triggered until 5 seconds after you press "**unlock** " tab.
- Hold Delay (Sec): set the relay hold delay timing (Ranging from 1-10 Sec.) For example, if you set the hold delay time as " 5" Sec. then the relay will be delayed for 5 after the door is unlocked.
- **DTMF Mode:** select the number of DTMF digit for the door access control (**Ranging from 1-4 digits**) For example, you can select 1 digit DTMF code or 2-digit DTMF code etc., according to your need.
- **1-digt DTMF** : set the 1-digt DTMF code within range from (**0-9 and *,#**).
- 2~4 Digits DTMF: set the DTMF code according to the DMTP Option setting. For example, you are required to set the 3-digits DTMF code if



30

DTMP Mode is set as 3-digits.

- **Relay Status:** relay status is low by default which means normally closed(NC) If the relay status is high, then it is in Normally Open status(NO).
- **Relay Name:** name the relay switch according to your need. For example you can name the relay switch according to where the relay switch is located for the convenience.

Note:

 Only the external devices connected to the relay switch needs to be powered by powered adapters as relay switch does not supply power.

Note:

 If DTMF mode is set as "1 Digit DTMF", you cannot edit DTMF code in 2~4 Digits DTMF field. And if you set DTMF mode from 2-4 in 2~4 Digits DTMF" field, you can not edit DTMF code in 1 Digit DTMF field.

9.2. Web Relay Setting

In additional to the relay that is connected to the door phone, you can also control the door access using the network-based web relay on the device and on the device web interface.

9.2.1.Configure Web Relay on the Web Interface

Web relay needs to set up on the web interface where you are required to fill in such information as relay IP address, password, web relay action etc. Before you can achieve the door access via web relay. To configure the configuration on web **Access Control > Web Relay** interface.

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Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	•		
	Web Relay							
	Туре			Disabled 🔹				
	IP Address							
	UserName							
	Password			•••••				
	Web Relay Action Setting							
Action I	D	Web Relay Actio	'n	Web Relay Key	Web Relay Exten	sion		
Action ID	01							
Action ID	02							
Action ID	03							

- Type: select among three options **Disabled**, **WebRelay** and **Both**. Select **WebRelay** to enable the web relay. Select **"Disable**" to disable the web relay. Select **Both** to enable both local relay and web relay.
- **IP Address:** enter the we relay IP address provided by the web relay manufacturer.
- User Name: enter the User name provided by the web relay manufacturer.
- **Password:** enter the password provided by the web relay manufacturer. The passwords is authenticated via HTTP and you can define the passwords using **http get** in Action.
- Web Relay Action: enter the specific web relay action command provided by the web manufacturer for different actions by the web relay.
- Web Relay Key: enter the configured DTMF code, when the door is unlock via DTMF code, the action command will be sent to the web relay automatically.
- Web Relay Extension: enter the relay extension information, which can be a SIP Account user name of an intercom device such as an indoor monitor, so that the specific action command will be sent when unlock is



performed on the intercom device, while this setting is optional. And please refer to the example below:

http://admin:admin@192.168.1.2/state.xml?relayState=2.

After the web relay is set up, you can configure the specific web relay to be triggered based on the relay location for the door access. To configure the configuration on web **Access Control > User** interface.

	Access Setting
Web Relay	0 •
Validity Term	Always
Submit	Back to list

9.2.2.Configure Web Relay on the Device

You can also assign a specific web relay to a resident for the door access based on order of the the web relay set up on the device **User > Setting** screen. Firstly, press **User** then press **Add** tab. Secondly, Press Web Relay arrow and tick the circle icon to assign the specific web relay to a resident. Finally press the **Save** tab on the **Add User** screen for the validation.





10. Door Access Schedule Management

You are required to configure and make schedule for the user-based door access via RF card, Private PIN and Facial recognition.

10.1. Configure Door Access Schedule

You can create door access schedules so that they can be later conveniently applied to the door access control intended for individual user or a group of users created. More over, you can edit your door access schedule if needed.

10.1.1. Create Door Access Schedule

You can create the door access schedule on the daily or monthly basis, and you can also create schedule that allows you to plan for a longer period of time in addition to running the door access schedule on the daily or monthly basis. To configure the configuration on web **Access Control > Schedule Setting** interface.

		Schedule Setting	
Schedule Type	Daily 💌		
Schedule Name			
Date Time	00 🔹 : 00 💌	- 00 - : 00 -	
		+ Add	Reset

To create a weekly schedule, select **Schedule Type** as **Weekly**.

chedule Type chedule Name		Weekly	•		
ay of Week	Mon	Z Tue	🗹 Wed	✓ Thur	
	🗹 Fri	Sat	Sun 🗹	Check All	
ate Time	00 💌	: 🗌	- 🗸 00	00 🔹 : 00 💌	
				+ Add Reset	
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To create a longer period schedule, select **Schedule Type** as **Normal**.

Schedule Type	No	ormal	 					
Schedule Name								
Date Range	2020 🔻	11 🔻	25 🔻		•	•	•	
Day of Week	🗹 Mon	🗹 Tue	🕑 Wed	🗹 Thur				
	🗹 Fri	🗹 Sat	Sun 🗹	Check	All			
Date Time	00 🔻	: 00	-	00 🔻	: [00 💌		
					+	Add	Reset	

10.1.2. Import and Export Door Access Schedule

In addition to creating door access schedule separately, you can also conveniently import or export the schedules in order to maximize your door access schedule management efficiency. To configure the configuration on web **Access Control > Schedule Setting > Import/Export Schedule(.xml)** interface.

Input	Relay	Web Relay	Door Log	Face Setting	CardSetting			
Schedule S	Body Temp	User	Temperatur	BLE	PIN Setting			
Import/Export Schedule(.xml)								
	Not selected any files	Select File	➔ Import	Export				
I Note	I Note:							
 It only supports .xml format file for importing and exporting the schedule. 								



10.1.3. Edit the Door Access Schedule

If you want to edit or delete your door access schedule you created, you can edit or delete the configured schedule separately or in batch on the web interface. To configure the configuration on web **Access Control > Schedule Setting > Schedule Management** interface.

	Index	Туре	Name	Date	Day of Week	Time
	1	Daily	Daily (Work Hour)	-	-	09:00-18:00
	2	Weekly	Weekly Cleaning	-	Mon,Wed,Fri,Sun	-
~	3	Normal	Day Shift	20200101-20210101	Mon,Tue,Wed,Thur,Fri,Sa t,Sun	08:00-16:30

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11. Door Unlock Configuration

E16 series door phone offer you three types of door access via PIN code, RF card and Facial recognition. You can configure them on the device and web interface. More over, you can import or exporting the configured files to maximize your RF card configuration efficiency.

11.1.Configure PIN Code for Door Unlock

You can create and modify both public PIN code and private PIN code for the door access on E16 series door phones.

11.1.1. Configure Public PIN code

You can configure and modify a total of 3 sets of separate PIN codes on the device web **Access Control > PIN Setting > Public PIN** interface. Tick the check box to enable the public PIN code then set the PIN code digit limit ranging from "**4-8**" in Public PIN Bits Limit field and Enter the Public PIN codes.

Enabled	
Public PIN Bits Limit	4 🔻
1st Public PIN	1234
2nd Public PIN	
3rd Public PIN	



) Note:

• Public PIN code will not valid until the function is turned on.

Note:

• **APT+PIN** can only be applicable when the device is added to the Akuvox SmartPlus.

11.1.2. Configure Private PIN Code on the Device

You can configure door access by Private PIN code on the device by entering the user's name and the PIN code for the door access.

To configure private PIN code , you can press **User** (i) icon on the **Setting** screen. Press **Add** tab and enter the User name. Then enter the private PIN in the **Private PIN** field.





11.1.3. Configure Private PIN Code on the Web Interface

On the web **Access Control > User** interface, you can not only set up PIN code, but also set and select the door access schedule that you created for the validity of the PIN Code access during a certain time span you scheduled. In addition, you can set the limit for the total number of valid PIN code door access. Enter the **user's name** and **floor number** then go to **Private PIN** section to enter the private PIN code in **Code**.

Input	Relay	Web Relay	Door Log	Face Setting	CardSetting			
Schedule S	Body Temp	User	Temperatur	BLE	PIN Setting			
			User Basic			Î		
	Name			Ryan				
	Floor No.			403		- 1		
	Private PIN							
	Code			123456				

To select door access Schedule for Private PIN Code door access, you can go to **Access Setting** interface to Set up PIN code validity time in the **Validity Term** field and set the limit for the total number. Then select targeted user(s).

Web Relay	0 🔻
Validity Term	Schedule 💌
Frequency	Always Schedule
All Schedules	Never
	1:Daily (Work Hour) Time 2:Weekly Cleaning
Submit	Back to list



Parameter Set-up:

- Validity Term: select validity term among three options: Always, Schedule and Never. if you select Always, then the door access via PIN code will always be valid with no restriction. If you select Schedule, then you are required to select among the created schedule for user-based PIN code access. If you select Never then the PIN code access will never be valid.
- Frequency: set the total number of valid PIN code access allowed.
- All Schedule: select from the created door access schedule on the right box and move the one to be applied to the user(s)-specific PIN code door access to the box on the right side.

Note:

• This step is applicable to door access by RF card and facial recognition as they are identical in configuration.

11.1.4. Configure Private PIN Access Mode

E16 series door phones offer you two types of access modes for private PIN code access, namely " **PIN**" and " **APT#+PIN**". To configure the access mode, you can go to **Access Control > PIN Setting > Private PIN** to select **Authorization Mode**.

Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	•
Schedule S	Body Temp	User	Temperatur	BLE	PIN Setting	
			Private PIN			
Authorization Mode			PIN	•		



Parameter Set-up:

 Authorization Mode: select access mode between "PIN" and "APT#+PIN". if you select "PIN" then you are only required to enter PIN code directly for the door access, while if you select "APT#+PIN", then you are required to enter the Apartment Number first before entering your PIN code for the door access.

11.2.Configure RF Card for Door Unlock

11.2.1. Configure RF Card on the Web Interface

To configure the configuration on web **Access Control > User** interface.

		RF Card			
	Card		2C76CE70	Obtain	
		+A	dd		
	ote:				
	ase refer to PIN code r(s)-specific door ac		chedule sele	ection for the	e RF card
No	ote:				
	card with 13.56 MHz one for the door acce		(Hz can be	applicable to	o the door



11.2.1.1. Configure RF Card Code Format

If you want to integrate with the third-party intercom system in terms of RF card door access, you can change the RF card code format to be identical with that applied in the third-party system. To configure the configuration on web **Access Control > CardSetting** interface.

Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	
Schedule S	Body Temp	User	Temperatur	BLE	PIN Setting	
			RFID			
IC-Card Display Mode 8HN 💌						
	Submi	t	Cane	cel		

Parameter Set-up:

IC-Card Display Mode: select the card format for the ID Card for the door access among five format options: 8H10D; 6H3D5D(W26); 6H8D; 8HN; 8HR. The card code format is 8HN by default in the door phone.

11.2.2. Configure Facial Recognition for Door Unlock

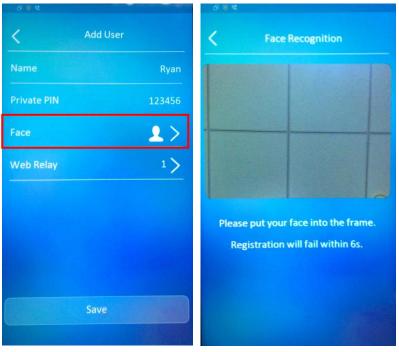
11.2.2.1. Configure Facial Recognition on the Device

To configure the facial recognition, you can configure door access by facial recognition on the device by entering the user's name and register your facial ID on the device for the door access.

To configure facial recognition, you can press **User** (1) on **Setting** screen. Press **Add** and enter the **User name**. Click on **Face** for facial recognition then stand in front of door phone camera in distance between 0.5 to 1 meter and keep your face in the center of square frame for ten seconds until your facial ID is successfully collected.



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11.2.2.2. Configure Facial Recognition on Web Interface

To configure the configuration on web **Access Control > User** interface.

Face		
	UnRegistered	
Not selected any files	Select File	
		UnRegistered

- Status: It will show "**Registered**" when the picture uploaded conforms to the format and standard otherwise it would show "**Unregistered**" as the default. However, the status will be changed back to "**Unregistered**" if the picture uploaded is cleared when you press the **Reset** tab.
- **Photo(jpg/png):** select the picture with jpg or png format to be uploaded to the device and press if you want to clear the picture uploaded.



Note:

• Pictures to be uploaded should be in jpg or png format.

11.3. Configure Door Access Using Configured Files.

E16 series door phones allow you to speedily configure user(s)-specific door access in batch by importing the configured all-in-one door access control files incorporating user information, door access type, door access schedule etc., thus all the door access setting can be done at one stop, saving your time and effort from configuring the door access for users separately when users are large in number. To configure the configuration on web **Access Control > User** interface.

Import/Export User						
User Data(Except Face)	Not selected any files	Select File	→ Import	Export		
Face	Not selected any files	Select File	→ Import	🕞 Export	Reset	
Note:						
) Note:						
Configured	file for facia	al recog	gnition and	d the othe	r types o	
configured o	door access fil	le are se	parated wit	h different f	ile forms.	

11.4.Editing the User(s)-specific door access data

You can search user(s)-specific door access and edit the door access data on the web **Access Control > User** interface.



				User			
Ryan		Search	Reset				Add
Index	Name	PIN	RF Card	Frequency	Floor No.	Relay	Edit
✓ 1	Ryan			0	403	1	2

11.4.1. Unlock by QR Code

QR code is another option for door access. If you want to apply QR code access, you need to enable the QR code function. To enable the QR code function, you can go to **Access Control > Relay > Open Relay via QR Code**.

Open R	elay Via QR Code
Enable	ON 💌
Submit	Cancel
Note:	
 The function should work information, please contact A 	with Akuvox SmartPlus. For more kuvox technical support.

11.4.2. Unlock by Bluetooth

You can also gain the door access by mobile phone with Bluetooth which is used together with Akuvox SmartPlus. You can shake the mobile phone closer to the access control terminal for the door access. To configure the configuration on web **Access Control > BLE > BLE** interface.

Aku	IVOX Int	mart Tercom		E16X	Administrate	or Guide
Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	
Schedule S.	Body Temp	User	Temperatur	BLE	PIN Setting	
			BLE			
	Enabled					
	Rssi Thresho	bld		72 (-85~-50DB)	
	Open Door I	Interval		5 🔹 ((Sec)	
	Subm	it	Can	cel		

Parameter Set-up:

- **Enabled:** enable or disable the Bluetooth function. Bluetooth is turned off by default.
- **Rssi Threshold:** select the signal receiving strength from -85~-50db in absolute terms. The higher value it is, the greater strength it has. The default value is 72db in absolute terms.
- **Open Door Interval:** select the time interval between the every two Bluetooth door accesses.

11.4.3. Unlock by HTTP Command on Web Browser

You can unlock the door remotely without approaching the device physically for the door access by typing in the created the HTTP command (URL) on the web browser to trigger the relay when you are not available by the door for the door access. To configure the configuration on web **Access Control > Relay > Open Relay via HTTP** interface.

Open	Relay via HTTP	
Enable	OFF 🔻	
User Name		
Password		



- **Enable:** enable the HTTP command unlock function by go toing on **Enable** field.
- User Name: enter the user name of the device web interface, for example "Admin".
- **Password**: enter the password for the HTTP command. For example : "12345".

Please refer to the following example:

http://192.168.35.127/fcgi/do?action=OpenDoor&UserName=admin&Passw ord=12345&DoorNum=1

Note:

• **DoorNum** in the HTTP command above refers to the relay number #1 to be triggered for the door access.

11.4.4. Unlock by Exit Button by the Door

When you need to open the door from inside using the exit button installed by the door, you can configure the access control terminal Input to trigger the relay for the door access. To configure the configuration on web **Access Control > Input > Input** interface.



Input	Relay	Web Relay	Doc	or Log	Face Set	ting	CardSetting	•
			Inp	ut				
	Enabled							
Trigger Electrical Level					Low	•		
	Execute Relay				Relay	•		
	Door Statu	S		E)oor: High			
	Subr	nit		Can	icel			

Parameter Set-up:

- **Trigger Electrical Level:** select the trigger electrical level options between "**High**" and "**Low**" according the actual operation on the exit button.
- **Execute Relay:** set up relays to be triggered by the input.
- **Door Status:** display the status of input signal.

11.4.5. Unlock by Reception Tab

In the device home screen, E16 series door phone provide residents and visitors a quick door access by pressing the **Reception** tab on the bottom of the home screen.To do the configuration, you can go to **Intercom > Basic > Key Setting.**

Key Setting					
Reception Enabled					
Name	Reception				
Number					
Submit	Cancel				

Parameter Set-up:

• **Reception Enabled:** tick the check box to enable the function.



- Name: enter the name for the Reception icon on the home screen.
- **Number:** enter the SIP/IP number to be called to after pressing the Reception icon for the door access.

0.00					
Please er	nter the numb	er to call			
		\sim			
1	2	3			
4	5	6			
7	8	9			
*	0	#			
	1. C				
Reception					

11.4.6. Unlock by DTMF Code

DTMF codes can be configured on the door phone web interface and set up identical DTMF code on the corresponding intercom devices such as indoor monitor, which allows residents to enter the DTMF code on the soft keypad or press DTMF code attached unlock tab on the screen to unlock the door for visitors etc., during a call.To do the extra DTMF configuration on the web interface, you can go to **Account > Advanced > DTMF** interface.

Туре	RFC2833	How To Notify DTMF	Disabled 🗾
DTMF Payload	101	(96~127)	

Parameter Set-up:

• **Type:** select DTMF type among five options: " **Inband**", " **RFC2833**", " **Info+Inband**" and "**Info+RFC2833**" according to you need.

- How to Notify DTMF: select among four options: "Disable" " DTMF"
 "DTMF-Relay" "Telephone-Event" according to your need.
- **DTMF Payload:** select the payload 96-127 for data transmission identification.

Note:

- Please refer to the chapter **Configure DTMF Data Transmission** for the specific DTMF code setting.
- Intercom devices involved must be consistent in the DTMF type otherwise DTMF code cannot be applied.

11.4.7. Body Temperature Measurement for Door Access (Optional)

E16 series provide you with an optional body temperature measurement function designed to be applied in the situation where the measurement becomes necessary for the safety of the residents and visitors etc. Residents and visitors are required to go through temperature measurement along with optional mask detection check before they are allowed for the door access.

11.4.7.1. Body Temperature Measurement

Configuration

You can configure the body temperature measurement function in terms of defining the normal temperature as well as making schedule for the validity of the function etc. To configure the configuration on web **Access Control > Body Temperature > Measuring Body Temperature** interface.

AKUV	Relay	Web Relay	Door Log	Face Setting	CardSettin	ator Guide
Schedule S	Body Temp	User	Temperatur			
		Measu	ring Body Temperat	ture		
	Mode			Disabled	-	
	Mask Detect	ion		Disabled	-	
	Temperature	e Unit		Centigrade	•	
	Normal Body	/ Temperature		37.3	(Beld	ow 37.3 °C)
	(If the detec	ted temperature is lo	ower than 34 °C, the c	levice will prompt low t	temperature, plea	ase try again later)
	Action To Ex	ecute		SIP/ IP Call		
	SIP/ IP Call	Number				

- **Mode**: select either **Disabled** Mode or **Wrist** Mode for temperature measurement according to your need. The device can be installed with digital forehead temperature detector therefore you can are required to set the mode properly according to your application.
- Mask Detection: select Enable or Disable to turn on or turn off the mask detection. When enabled, the device will check if the visitor is wearing a mask or not while reminding the visitor with the announcement "Please wear a mask" while visitors wearing mask will be prompted either "Keep face in the frame" or "Keep wrist close to the sensor" depending on the mode that is selected. Warning alarm will be triggered when the body temperature measured is detected higher than the defined normal body temperature.
- Normal Body Temperature: set the body temperature to the predefined body temperature as the measuring basis in either Fahrenheit or Celsius. For example if you set the temperature 37.3 degree Celsius as the normal temperature, then any body temperature measured higher than 37.3 degree Celsius will be deemed as abnormal temperature, while the temperature lower than 34 degree Celsius will be deemed as low body temperature.
- Action to Execute: check the box to enable or disable the SIP/IP Call. If you want to be notified via SIP/IP call when abnormal temperature and low temperature is detected.
- SIP/IP Call Number: enter the SIP or IP call for the notification. The field



will appear for you to fill in SIP/IP numbers when you check the box in the **Action to Execute** field.

11.4.7.2. Ambient Temperature Configuration

In order to offset the minor variations on the temperature as affected by the ambient temperature in the different places where the device is installed or in the different time of a day, you are required to configure the temperature setting on the basis of time segments during a day. To configure the configuration on web **Access Control > Body Temperature > Ambient Temperature Setting** interface.

ID	Start Time	End Time	Ambient Temperature
1	02 🔹 : 00 💌	08 🔹 : 00 💌	25.0 (10~40.0°C
2	08 • : 00 •	14 🔹 : 00 💌	25.0 (10~40.0°C
3	14 🔹 : 00 💌	20 🔹 : 00 💌	25.0 (10~40.0°C)
4	20 🔹 : 00 💌	02 💌 : 00 💌	25.0 (10~40.0°C

- Start Time/End Time: select the start time and end time temperature by referring to the actual temperature measured at the time segments ranging from 10- 40℃ degree Celsius. For example, when you divide the time into four time segments, then each of the time segments will be six hours (24 hours a day), while the end time of one segment should be the start time of the next time segment. You can divide the time segments according to your need.
- Ambient Temperature: enter the ambient temperature degree. Accuracy can be ensured for the actual temperature value within the range from 10- 40 degree Celsius .



12. Security

12.1.Tamper Alarm Setting

Tamper alarm function serves as a protection against any unauthorized removal of the devices by triggering off the temper alarm on the device. To configure the configuration on web **Security > Basic > Temper Alarm** interface.

	Tamper Alarm					
Enable	C Disarm					
Key Status	Low					

Parameter Set-up:

- **Enable**: tick the check box to enable the temper alarm function. When the temper alarm goes off , you can press the **Disarm** tab beside the check box to clear the alarm.
- **Key Status**: temper alarm will not be triggered unless the key status is shifted from "Low" to " High" status.

) Note:

- **Disarm** tab will turn gray when the temper alarm is cleared.
- The round rubber button at the back of the device must be in press-down status otherwise the alarm will not be fired.

Note:

• The round rubber button at the back of the device must be in press-down status otherwise the alarm will not be fired.



12.2. Security Notification Setting

12.2.1. Email Notification Setting

If you want to receive the security notification via email, you can configure the Email notification on the web interface properly. To configure the configuration on web **Setting > Action > Email Notification** interface.

Time/Lang	Action	Door		
			Email Notification	
	Sender's Ema	ail Address		
	Sender's Ema	ail Name		
	Receiver's Er	nail Address		
	Receiver's Er	nail Name		
	SMTP Server	Address		
	Port			
	SMTP User N	ame		
	SMTP Passwo	ord	******	
	Email Subjec	t		
	Email Conter	it		

- Sender's Email Name: enter the name of the email sender.
- Sender's email address: enter the sender's email address from which the email notification will be sent out.
- **Receiver's email address:** enter the receiver's email address.
- **Receiver's Email Name:** enter the the name of the email receiver.
- SMTP server address:enter the SMTP server address of the sender.



- **Port:** enter the port number from which the email is sent out.
- **SMTP user name:** enter the SMTP user name, which is usually the same with sender's email address.
- **SMTP password:**configure the password of SMTP service, which is same with sender's email address.
- Email subject: enter the subject of the email.
- **Email content:** compile the emails contents according to your need.

12.2.2. FTP Notification setting

If you want to receive the security notification via FTP, you can configure the FTP notification on the web interface properly. To configure the configuration on web **Setting > Action > FTP Notification** interface.

FTP Notification					
••••••					

- **FTP server**: enter the address (URL) of the FTP server for the FTP notification.
- **FTP User Name**: enter the FTP server user name.
- **FTP Password**: enter the FTP server password.
- **FTP Path**: enter the folder name you created in FTP server.



12.2.3. TFTP Notification Setting

If you want to receive the security notification via TFTP, you can configure the FTP notification on the web interface properly. To configure the configuration on web **Setting > Action > TFTP Notification** interface.

	TFTP Notification	
TFTP Server		
Submit	Cancel	

Parameter set-up:

• **TFTP Server**: enter the address (URL) of the TFTP server for the FTP notification

12.3.Web Interface Automatic Log-out

You can set up the web interface automatic log-out timing, requiring re-login by entering the user name and the passwords for the security purpose or for the convenience of operation. To configure the configuration on web **Security > Basic > Session Time Out** interface.

Sess	ion Time Out
Session Time Out Value	60
Submit	Cancel



13. Monitor and Image

13.1.MJPEG Image Capturing

E16 series allow you to capture the MJPEG format monitoring image if needed. You can enable the MJPEG function and set the image quality on the web interface. To configure the configuration on web **Surveillance > MJPEG > MJPEG Server** interface.

RTSP	MJPEG	Onvif	Live Stream
			MJPEG Server
	Enabled		
	Image Quality	/	1080P 🔻
	Submit		Cancel

Parameter Set-up:

- **Enabled**: Tick the check box to enable or disable the Mjpeg service.
- Image Quality: select the quality for the image capturing among seven options: QCIF, QVGA, CIF, VGA, 4CIF, 720P, 1080P

After the MJPEG service is enabled, you can capture the image from the door phone using following three types of URL format:

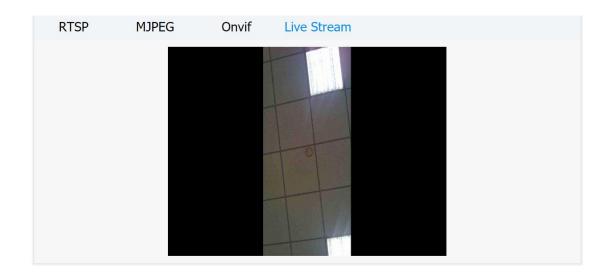
- http:// device ip:8080/picture.cgi
- http://device ip:8080/picture.jpg
- http://device ip:8080/jpeg.cgi

For example, if you want to capture the jpg format image of door phone with the IP address: 192.168.1.104, you can Enter "http://192.168.1.104:8080/picture.jpg" on the web browser.

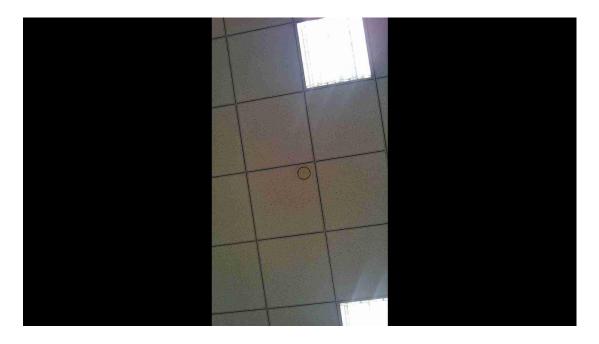


13.2.Live Stream

If you want to check the real-time video from the E16 series access control terminal, you can go to the device web interface to obtain the real-time video or you can also enter the correct URL on the web browser to obtain it directly. To see the live stream on web **Surveillance > Live Stream** interface.



To check the real time video using URL, you can Enter the correct URL (http://IP_address:8080/video.cgi) on the web browser if you want to obtain the real-time video directly with going to the web interface > Check the real time video.





13.3.RTSP Stream Monitoring

E16 series door phone support RTSP stream that allows intercom devices such as indoor monitor or the monitoring unit from the third party to monitor or obtain the the real time audio/ video (RTSP stream) from the door phone using the correct URL.

13.3.1. RTSP Basic Setting

You are required to set up RTSP function in terms of RTSP Authorization, authentication, and password etc., before you are able to use the function. To configure the configuration on web **Surveillance > RTSP > RTSP Basic** interface.

RTSP	MJPEG	Onvif	Live Stream	
			RTSP Basic	
	Enabled			
	Authorization	Enabled		
	Authorization	Mode	Digest	
	User Name		admin	
	Password		******	

- **Enabled:** tick the check box to to turn on or turn off the RTSP function.
- Authorization Enabled: tick the check box to enable the RTSP authorization. If you enable the RTSP Authorization, you are required to enter RTSP Authentication Type, RTSP Username, RTSP Password on the intercom device such as indoor monitor for authorization.
- **RTSP Authentication Type**: select RTSP authentication type between "**Basic**" and "**Digest**". "**Basic** " is the default authentication type.
- User Name: enter the name used for RTSP authorization.
- **Password**: enter the password for RTSP authorization.





13.3.2. RTSP Stream Setting

You can select the video codec format for the RTSP stream for the monitoring and you can also configure video resolution and bitrate etc. which based on your actual network environment on the web interface. To configure the configuration on web **Surveillance > RTSP > H.264 Video Parameters** interface.

Video Resolution	1080P
Video Framerate	25 fps
Video Bitrate	4096 kbps
2nd Video Resolution	VGA
2nd Video Framerate	25 fps
2nd Video Bitrate	512 kbps

- Video Resolution: select video resolutions among seven options: "QCIF", "QVGA","CIF","VGA","4CIF","720P,""1080P". The default video resolution is "720P. and the video from the door phone might not be able to be shown in the indoor monitor if the resolution is set higher than "720P".
- Video Framerate: "25fps" is the video frame rate by default.
- Video Bitrate: select video bit-rate among six options: "128 kbps", "256kbps", "512 kbps", "1024 kbps", "2048 kbps", "4096 kpbs" according to your network environment. The default video bit-rate is "2048 kpbs".
- **2nd Video Resolution2**: select video resolution for the second video stream channel. While the default video solution is "VGA".
- **2nd Video Framerate**: select the video framerate for the second video stream channel. **"25fps"** is the video frame rate by default for the second video stream channel.



 2nd Video Bitrate: select video bit-rate among the six options for the second video stream channel. While the second video stream channel is "512 kpbs" by default.

Note:

• E16 series supports two video stream channels for H.264 codec video stream.

13.4. ONVIF

Real-time video from the E16 series access control terminal camera can be searched and obtained by the Akuvox indoor monitor or by the third-party devices such as NVR (**Network Video Recorder**) you can configure the ONVIF function in the access control terminal so that other device will be able to see the video from the access control terminal. To configure the configuration on web **Intercom > ONVIF** interface.

RTSP	MJPEG	Onvif	Live Stream
			Basic Setting
	Discoverable		
	User Name		admin
	Password		•••••
	Submit		Cancel

- **Discoverable:** tick the check box to turn on the the ONVIF mode. If you select video from the door phone camera can be searched by other devices. ONVIF mode is " **Discoverable**" by default.
- User Name: enter the user name. The user name is " admin" by default.
- **Password**: enter the password. The password is " **admin**" by default.



After the setting is complete, you can enter the ONVIF URL on the third party device to view the video stream.

For example: http://IP address:80/onvif/device_service



• Fill in the specific IP address of the door phone in the URL.



14. Logs

14.1. Call Logs

If you want to check on the calls inclusive of the dial-out calls, received calls and missed calls in a certain period of time, you can check and search the call log on the device web interface and export the call log from the device if needed. To check the call log, you can go to **Intercom > Call Log** interface.

Call History		All	•	∃ Export		
Index	Туре	Date	Time	Local Identity 192.168.35.1	Name	Number 192.168.35.1
2 1	Dialed	2020-11-24	06:47:07	14@192.168.3	Indoor Monitor	<u>26@192.168.3</u>
				5.114 192.168.35.1		<u>5.126</u> 192.168.35.1
2	Dialed	2020-11-24	06:46:46	14@192.168.3	Indoor Monitor	<u>26@192.168.3</u>
				5.114		5.126
				192.168.35.1		192.168.35.1
3	Dialed	2020-11-24	06:46:13	14@192.168.3	Indoor Monitor	<u>26@192.168.3</u>

Parameter Set-up:

• Call History: select call history among four options: "All", "Dialed" "Received" "Missed" for the specific type of call log to be displayed.

14.2.Door Logs

If you want to search and check on door access history, you can search and check the door logs on the device web **Access > Door log** interface.



Input	Rela	ay Web	Relay	Door Log	Face Setting	CardSet	ting
Save Door Log	Enabled						
All 🔻 Ti	ime mm/de	d/yyyy 🗖 - mm	n/dd/yyyy 🕻	Name/Code		Search	🕞 Export 🗸
Index	Name	Code	Туре	Date	Time	Status	Picture
1	Ryan	0745983600	Card	2020-11-13	08:25:12	Success	View
2	Ryan	0745983600	Card	2020-11-13	08:25:09	Success	View
3	Ryan	0745983600	Card	2020-11-13	08:24:23	Success	View

Parameter set-up:

- Save Door Log Enabled: tick the check box to turn on or turn off the door log function.
- Status: select between Success and Failed options to search for successful door accesses or Failed door accesses.
- **Time:** select the specific time select the specific time span of the door logs you want to search, check or export.
- Name/Code: select the Name and Code options to search door log by the name or by the PIN code.

14.3. Temperature Log

To check temperature log on web Access Control > Temperature Log interface.

	Input	Relay	Web Relay	Door Log	Face Setting	CardSetting	-				
Schedule S Body Temp User Temperature Log											
	Status	А									
	Time mm/dd/yy	yy 🗖 - mm/	dd/yyyy 🗖	Filter	Export v						
	Index	Temperature	Status	Date	Time	Picture					
	1										
	2										
	3										

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15.1.System Log for Debugging

System log in the access control terminal can be used for debugging purpose. If you want to export the system out to a local PC or to a remote server for debugging, you can set up the function on the web **Upgrade > Advanced > System Log** interface.

System Log					
LogLevel	3	•			
Export Log	🕞 Export				
Remote System Log	Disabled	•			
Remote System Server					

- LogLevel: select log levels from 1 to 7 levels. You will be instructed by Akuvox technical staff about the specific log level to be entered for debugging purpose. The default log level is "3", the higher the level is "5", the more complete the log is "7".
- **Export Log**: go to the **Export** tab to export temporary debug log file to a local PC.
- **Remote System Log**: select "**Enable**" or "**Disable**" if you wan to enable or disable the remote system log.
- **Remote System Server**: enter the remote server address to receive the the device log. And the remote server address will be provide by Akuvox technical support.



15.2.PCAP for Debugging

PCAP in E16 series access control terminal is used to capture the data package going in and out of the devices for debugging and troubleshooting purpose. You can set up the PCAP on the device web **Upgrade > Advanced > PCAP** interface properly before using it.

	PCAP	
Specific Port	1~65535	
PCAP	Start	Export
PCAP Auto Refresh	Disabled	

- **Specific Port**: select the specific ports from 1-65535 so that only the data packet from the specific port can be captured. You can leave the field blank by default.
- **PCAP**: go to **Start** tab and **Stop** tab to capture the a certain range of data packets before go toing **Export** tab to export the data packets to you Local PC.
- PCAP Auto Refresh: select "Enable" or "Disable" to turn on or turn off the PCAP auto fresh function. If you set it as "Enable" then the PCAP will continue to capture data packet even after the data packets reached its 1M maximum in capacity. If you set it as "Disable" the PCAP will stop data packet capturing when the data packet captured reached the maximum capturing capacity of 1MB.





16. Firmware Upgrade

Firmware of different versions for E16 series access control terminal can be upgraded on the device web **Upgrade > Basic** interface.

Basic	Advanced Firmware Version	116.30.0.28
	Hardware Version	116.0.5.1.0.0.0
	Upgrade	Not selected any files Select File Submit Cancel
	Reset To Factory Setting	Submit
	Reboot	Submit
! Note	2:	
• Firm	ware files should be . zip	format for upgrade.



17. Backup

Configuration files can be imported to or exported out of the device to your local PC on the device web **Upgrade > Advanced > Others** interface if needed.

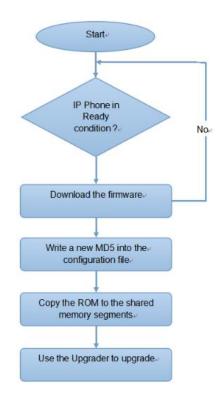
	Others
Config File(.tgz/.conf/.cfg)	Not selected any files Select File
E Import	Export (Encrypted)
Submit	Cancel

18. Auto-provisioning via Configuration File

Configurations and upgrading on E16 series door phone can be done on the web interface via one-time auto-provisioning and scheduled auto-provisioning via configuration files, thus saving you from setting up configuration needed one by one manually on the door phone.

18.1.Provisioning Principle

Auto-provisioning is a feature used to configure or upgrade the devices in batch via third party servers. **DHCP, PNP, TFTP, FTP, HTTPS** are the protocols used by the Akuvox intercom devices to access the URL of the address of the third party server which stores configuration files and firmwares, which will then be used to to update the firmware and the corresponding parameters on the door phone.



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18.2. Configuration Files for Auto-provisioning

Configuration files have two formats for the auto-provisioning. one is the general configuration files used for the general provisioning and other one is the MAC-based configuration provisioning.

The difference between the two types of configuration files is shown as below:

- General configuration provisioning: a general file is stored in a server from which all the related devices will be able to download the same configuration file to update parameters on the devices. For example : r00000000083.cfg.
- MAC-based configuration provisioning: MAC-based configuration files is used for the auto-provisioning on a specific device as distinguished by its unique MAC number. And the configuration files named with device MAC number will be matched automatically with the device MAC number before being downloaded for the provisioning on the specific device.

Note:

 If a server has these two types of configuration files, then IP devices will first access the general configuration files before accessing the MAC-based configuration files.

18.3.AutoP Schedule

Akuvox provides you with different Autop methods that enable the access control terminal to perform provisioning for itself in a specific time according to your schedule. To configure the configuration on web **Upgrade >** Advanced > Automatic Autop interface.



		Automat	ic Autop	
Mode			Power On	•
Schedule			Sunday	
22	Hour(0~23)	0	Min(0~59)	
Clear MD5			Submit	
Export Autor	Template		☐ Export	

Parameter Set-up:

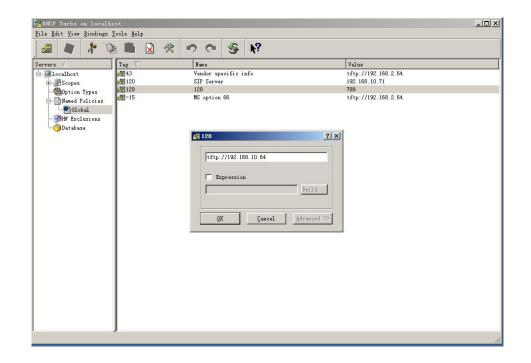
- **Power On:** select **Power on**, if you want the device to perform Autop every time it boots up.
- **Repeatedly:** select **Repeatedly**, if you want the device to perform autop according to the schedule you set up.
- **Power On + Repeatedly:** select **Power On + Repeatedly** if you want to combine **Power On** Mode and **Repeatedly** mode that will enable the device to perform Autop every time it boots up or according to the schedule you set up.
- Hourly Repeat: select Hourly Repeat if you want the device to perform Autop every hour.

18.4.DHCP Provisioning Configuration

Auto-provisioning URL can also be obtained using DHCP option which allows device to send a request to a DHCP server for a specific DHCP option code. If you want to use **Custom Option** as defined by users with option code range from 128-255), you are required to configure DHCP Custom Option on the web interface. To set up DHCP AutoP with "Custom Option" and "Power on" mode, on web **Upgrade > Advanced > Automatic Autop** interface. Click **Export** tab in **Export Autop Template** to export Autop template. Then set up DHCP Option on DHCP server.



Mode	Power On	•
Schedule	Sunday	•
22 Hour(0~23) 0	Min(0~59)	
Clear MD5	Submit	
xport Autop Template	Export	



Note:

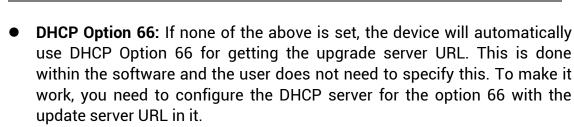
• The custom Option type must be a string. The value is the URL of TFTP server.

DHCP	Option
Custom Option	(128~254)
(DHCP Option 66/43 is Enabled by Default	t)

Parameter set-up:

• **Custom Option**: enter the DHCP code that matched with corresponding URL so that device will find the configuration file server for the configuration or upgrading.

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 DHCP Option 43: If the device does not get an URL from DHCP Option 66, it will automatically use DHCP Option 43. This is done within the software and the user does not need to specify this. To make it work, you need to configure the DHCP server for the option 43 with the update server URL in it.

Note:

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The general configuration file for the in-batch provisioning is with the format "r000000000xx.cfg" taking E16 as an example "r00000000016.cfg (10 "zeros" in total while the MAC-based configuration file for the specific device provisioning is with the "MAC_Address of the device.cfg, format for example "0C110504AE5B.cfg."

18.5. Static Provisioning Configuration

You can manually set up a specific server URL for downloading the firmware or configuration file. If an autop schedule is set up, the access control terminal will perform the auto provisioning on a specific timing according to autop schedule you set up. In addition, TFTP, FTP, HTTP, and HTTPS are the protocols that can be used for upgrading the device firmware and configuration. To download the Autop template on **Upgrade > Advanced > Automatic Autop ,** and setup Autop server on **Upgrade > Advanced > Manual Autop** interface.

Α	Automatic Autop	
Mode	Power On	•
Schedule	Sunday	-
22 Hour(0~23)	0 Min(0~59)	
Clear MD5	Submit	
Export Autop Template	Export	
	Manual Autop	5.98
	Manual Autop	5.98
URL	Manual Autop tftp://192.168.3	5.98
URL User Name	Manual Autop tftp://192.168.3 admin	5.98

Parameter set-up:

- URL: set up tftp, http, https, ftp server address for the provisioning.
- User Name: set up a user name if the server needs an user name to be accessed to otherwise leave it blank.
- **Password**: set up a password if the server needs a password to be accessed to otherwise leave it blank.
- **Common AES Key**: set up AES code for the intercom to decipher general Auto Provisioning configuration file.
- **AES Key (MAC)**: set up AES code for the intercom to decipher the MAC-based auto provisioning configuration file.

Note:

• AES is one type of encryption, it should be configured only when the config file is encrypted with AES, otherwise leave the field blank.



Note:

Server Address format:

- TFTP: tftp://192.168.0.19/
- FTP: ftp://192.168.0.19/ (allows anonymous login)
- ftp://username:password@192.168.0.19/(requires a user name and password)
- HTTP: http://192.168.0.19/ (use the default port 80)
- http://192.168.0.19:8080/ (use other ports, such as 8080)
- HTTPS: https://192.168.0.19/ (use the default port 443)

) Tip:

- Akuvox do not provide user specified server.
- Please prepare TFTP/FTP/HTTP/HTTPS server by yourself.



19. Integration with Third Party Device

19.1.Integration via Wiegand

If you want to integrate the E16 series access control terminal with the third-party devices via Wiegand, you can configure the Wiegand on the web **Device > Wiegand > Wiegand** interface.

Light	Wiegand	RS485	Voice	LCD		
			Wiegand			
	Wiegand Dis	play Mode		8HN	*	
	Wiegand Car	d Reader Mode		Wiegand-26	-	
	Wiegand Tra	nsfer Mode		Input	•	
	Wiegand Inp	ut Data Order		Normal	-	
	Wiegand Out	tput Data Order		Normal	-	
	Wiegand Out	tput CRC				
	Submi	ţ	Car	ncel		

Parameter Set-up:

- Wiegand Display Mode: select Wigand Card code format among 8H10D; 6H3D5D; 6H8D; 8HN; 8HR; RAW.
- Wiegand Card Reader Mode: set the wiegand data transmission format among three options: Wiegand 26, Wiegand 34, Wiegand 58. The transmission format should be identical between the door phone and the device to be integrated.
- Wiegand Transfer Mode: set the Transfer mode between "Input" or "Output" if the door phone is used as a receiver then set it as "Input" for the door phone and vice versa.



- Wiegand Input Data Order: set the Wiegand input data sequence between "Normal" and "Reversed" if you select "Reversed" then the input card number will be reversed an vice versa.
- Wiegand Output Data Order: set the Wiegand output data sequence between "Normal" and "Reversed" if you select "Reversed" then the input card number will be reversed an vice versa.
- Wiegand Output CRC: tick to enable the parity check function to ensure that signal-based data can be transmitted correctly according to the established data transmission format.

19.2. Integration via RS485

RS485 integration mode should be configured properly on the access control terminal's web interface before you can implement the integration between the access control terminal and the third-party devices. To configure the configuration on web **Device > RS485 > RS485 List** interface.

Light	Wiegand	RS485	Voice	LCD	
			RS485 List		
	Apply to			OSDP 🔻	

Parameter Set-up:

• **RS485 List**: select integration mode between two options: "**None**"," **OSDP**", the detail for the two options will be provided in the following chart.



NO.	Integration Mode	Description
1	None	If you select " None " then the RS485 integration will be disabled.
2	OSDP	If you Select " OSDP " Mode, then the integration communication between the E16 series door phone and the third party device is via OSDP protocol. You are required to check for the device integration protocol and make sure if that they use the same integration protocol.

19.3. OSDP Setting

If you choose OSDP integration mode, you can not only check for OSDP status but also obtain the authentication from the third-party devices for various applications such as door access etc. To configure the configuration on web **Device > RS485 > OSDP Advance Setting** interface.

OSDP Advance Setting			
Disconnected			
Wiegand 💌			
Cancel			

Parameter Set-up:

- **Connect Status:** indicate OSDP based communication status.
- Send by: select in what way you want to send out the card number among three options: OSDP, Wiegand and None. if you select OSDP then the card number will be sent out to the third party devices via RS485. if you select Wiegand then the card number will be sent out via wiegand. If you select None then the card number will not be sent out but retained in

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the system.

Note:

 Dummy card numbers can not be sent if "OSDP" is not selected in the RS485 list field.



20. Password Modification

On the device web interface, you can set and change password for accessing the web **Security > Basic > Web Password Modify** interface. In addition, you can also select the user role when setting passwords.

Basic			
	Web P	assword Modify	
	User Name	admin 💌	
	Current Password		
	New Password		
	Confirm Password		

To set up the Project PIN code, you can go to Project PIN section.

	Project PIN	
Code		



21. System Reboot&Reset

21.1.Reboot

If you want to restart the device, you can operate it on the device web **Upgrade > Basic** interface as well. Moreover, you can set up schedule for the device to be restarted.

Basic	Advanced	
	Firmware Version	116.30.0.43
	Hardware Version	116.0.5.1.0.0.0.0
	Upgrade	Not selected any files Select File
		Submit Cancel
	Reset To Factory Setting	Submit
	Reboot	Submit

To set up the device restart schedule on web **Upgrade > Advanced > Reboot Schedule** interface.

Reboot	Schedule
Mode	Disabled 💌
Schedule	Every Day
Hour	0
Submit	Cancel



If you want to reset the device system to the factory setting, you can it on the web **Upgrade > Basic** interface.

Basic	Advanced	
	Firmware Version	116.30.0.43
	Hardware Version	116.0.5.1.0.0.0.0
	Upgrade	Not selected any files Select File
		Submit Cancel
	Reset To Factory Setting	Submit
	Reboot	Submit



22. Abbreviations

- ACS: Auto Configuration Server
- Auto: Automatically
- AEC: Configurable Acoustic and Line Echo Cancelers
- **ACD:** Automatic Call Distribution
- Autop: Automatical Provisioning
- **AES:** Advanced Encryption Standard
- BLF: Busy Lamp Field
- COM: Common
- **CPE:** Customer Premise Equipment
- CWMP: CPE WAN Management Protocol
- DTMF: Dual Tone Multi-Frequency
- DHCP. Dynamic Host Configuration Protocol
- **DNS:** Domain Name System
- DND: Do Not Disturb
- DNS-SRV: Service record in the Domain Name System
- FTP. File Transfer Protocol
- GND: Ground
- HTTP: Hypertext Transfer Protocol
- HTTPS: Hypertext Transfer Protocol Secure Socket Layer
- **IP:** Internet Protocol
- **ID:** Identification
- **IR:** Infrared
- LCD: Liquid Crystal Display
- LED: Light Emitting Diode
- MAX: Maximum
- **POE:** Power Over Ethernet

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PCMA: Pulse Code Modulation A-Law PCMU: Pulse Code Modulation µ-Law PCAP. Packet Capture **PNP**: Plug and Play **RFID:** Radio Frequency Identification **RTP.** Real-time Transport Protocol **RTSP.** Real Time Streaming Protocol **MPEG:** Moving Picture Experts Group **MWI:** Message Waiting Indicator NO: Normal Opened NC: Normal Connected NTP. Network Time Protocol **NAT:** Network Address Translation **NVR:** Network Video Recorder **ONVIF:** Open Network Video Interface Forum **SIP**: Session Initiation Protocol **SNMP.** Simple Network Management Protocol STUN: Session Traversal Utilities for NAT **SNMP.** Simple Mail Transfer Protocol **SDMC:** SIP Devices Management Center TR069: Technical Report069 TCP. Transmission Control Protocol **TLS:** Transport Layer Security **TFTP**. Trivial File Transfer Protocol **UDP**: User Datagram Protocol **URL:** Uniform Resource Locator VLAN: Virtual Local Area Network WG: Wiegand

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Q1: How to obtain IP address of R2X

A1: For devices with single button - E21/ R20/ R23/ R26:

While E21/ R20/ R23/ R26 power up normally, hold the call button for 5 seconds after the statue LED turns blue and it will enter into IP announcement mode. In announcement mode, the IP address will be announced repeatedly. Press call button again to quit the announcement mode.

✓ For devices with multiple numeric keyboard - R27:

While R27 power up normally, press "*2396#" to enter home screen and press "1" to go to system Information screen to check the IP address.

✓ For devices with touch screen - R29:

While R29 power up normally, in the dial interface, press "9999", "Dial key", "3888" and "OK" to enter the system setting screen. Go to info screen to check the IP address.

✓ Common method:

Using Akuvox IP Scanner to search Akuvox devices in the same LAN network.

Q2: Do Akuvox devices support opus codec?

A2: For now, only Akuvox Android video IP phone R48G can support Opus audio codec.

Q3: What is the supported temperature range for akuvox doorphone? A3: R20/E21/R26/R23/Standard R27/Standard R29 -- 14° to 112°F (-10° to 45°C)

R27/R29 with heating supporting --- 40 degrees R28 -- (-40°C~55°C) Indoorphone -- 14° to 112°F (-10° to 45°C) IPPhone -- 32°~104°F(0~40°C)

Q4: Do Akuvox devices support Modbus protocol? A4: No.

Q5: Failure in importing the R29 face data to another R29 using the exported face data .

A5: Please confirm the following steps:

The import format is zip;

1. After you export , you need to unzip the .tgz folder , then make the unziped

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folrder into .zip again.

Q55: Which version of ONVIF does R20 and R29 support? A55: Onvif 18.04 profiles

Q6: Do door phones support these card types? Prox, Legacy iClass,iClassSE,HID Mifare, HID DESFire,HID SEOS

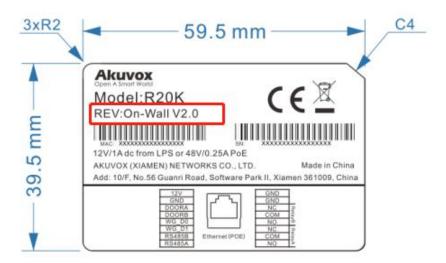
A6: Sorry, they are not supported. They need to be implemented via hardware modifications.

Q7: How to confirm whether my device is hardware version 1 or hardware version 2?

A7: 1.Label

• Hardware version 2





• Firmware Version

The firmware is different between hardware version1 and hardware version 2. Go to Web-Status -Firmware Version. 20.X.X.X is hardware version 1. 220.X.X.X is hardware version 2.

• Hardware version

The firmware is different between hardware version1 and hardware version 2. Go to Web-Status -Firmware Version.

If the hardware version is 220.x, then the device is hardware version 2.

tatus				
Pr	roduct Information			
Model	R20K			
MAC Address	0C:11:05:08:00:6D			
Firmware Version	20.30.4.8			
Hardware Version	20.9.0.0.0.0.0			

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24. Contact Us

For more information about the product, please visit us at www.akuvox.com or feel free to contact us by Sales email: sales@akuvox.com Technical support email: support@akuvox.com Telephone: +86-592-2133061 ext.7694/8162

We highly appreciate your feedback about our products.

