



FE-IPDS-20

ADMIN GUIDE

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1. Product Overview

1.1 Description

Freund **FE-IPDS-20** is a SIP-Compliant, hands free, one button video door phone. It can be connected with your Freund IP Phone for remote unlock control and with monitor as well. Users can operate the Indoor Monitor to communicate with visitors using audio and video. RF Cards can be used to unlock the door.

1.2 Features

Highlights

- Vandal resistant body, with a flush button
- Wide-angle camera: 116° (H), 60°(V)
- PoE (IEEE802.3af, Power-over-Ethernet)
- Two-way audio communication over IP networks with Echo Cancellation feature
- Complies with ONVIF standard for easy integration with any network surveillance system
- Complies with SIP standard for easy integration in every SIP capable PBXes

Specification

POWER AND PHYSICAL

Material	Aluminium
Camera	3 MP, auto-lighting
Buttons	1 Call button
Installation	On-wall/In-wall
IP Protection	IP65(water and dust proof)
Infrared	Yes
Light sensor	Yes
RF Card Reader	13.56 MHz, 125 kHz
Microphone	40dB
Speaker	4Ω/3W
Ethernet port	RJ45, 10/100Mbps adaptive
On-wall dimensions	189 x 120 x 56.5 mm
In-wall dimensions	145 x 85 x 27.5 mm
Working humidity	10% to 90 %
Working temperature	-20°C to 65°C
Storage temperature	-40°C to 70°C
Relay in/out	2 input and output relays for door opener

VIDEO

Sensor	1/3", CMOS
Pixels	CIF, QCIF, VGA, 4CIF, 720p
Video codec	H.264
Video resolution	Up to 720p
Maximum image transfer rate	720p-30fps
Viewing angle	120°/ 64° (H/V)
Lighting	High intensity IR LEDs for picture lighting during dark hours with internal light sensor, compatible with 3 rd party components

NETWORKING

Protocol support	IPv4, HTTP, HTTPS, FTP, SNMP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, DHCP, ARP
------------------	--

DOOR ENTRY FEATURE

White balance	Auto
Minimum illumination	0.1 LUX
Additional information	Relays controlled individually by DTMF tones, camera permanently operational, auto-night mode with LED illumination

APPLICATION SCENARIOS

- Office door phone with on-site or hosted IP-PBX
- Remote site entry over Internet
- Apartment/flat intercom with door access control

1.3 Daily Use

1.3.1 Making a Call

Press the Call Button to make a call out to a predefined number or IP address. When the call is answered, the button LED will change its color to green.

1.3.2 Receiving a Call

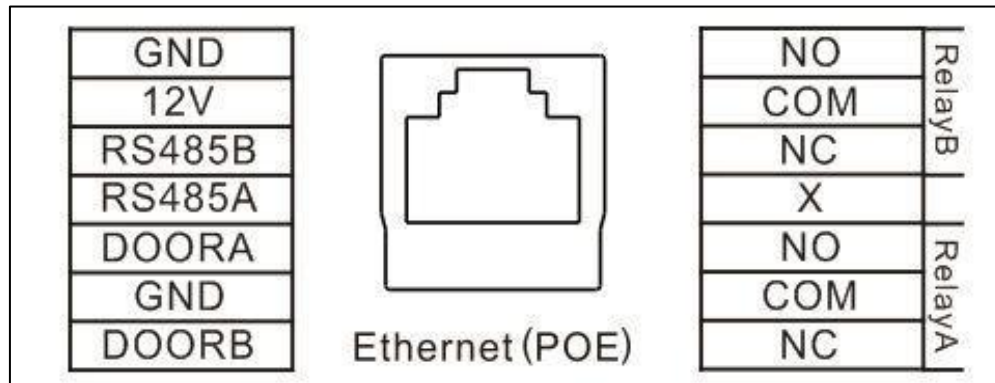
Users can use an IP Phone or Indoor Monitor to make a call to a FE-IPDS-20 and it will answer automatically by default. Auto Answer option can be disabled through devices' Web Interface. The process is described in section [Call Feature](#) of this manual.

1.3.3 Unlocking a door with an RF Card

Place the predefined RF Card on the Card Sensor area. The device will announce the sentence "The door is now open".

FE-IPDS-20 supports 13.56 MHz and 125 kHz RF Cards.

1.4 Connector Introduction



PICTURE1

Connector	Description
Ethernet (POE)	Used to provide the device with network connection; Can be used to power the device if it is connected to a switch device
12V/GND	Used to power the device using an external power supply
RS485A/B	RS485 terminal for automation system control (e.g. Elevator control).
DOORA/B	Trigger signal input terminal (e.g. Press indoor button to open relay).
Relay A/B	NO/NC Relay control terminal.

2. Basic Settings

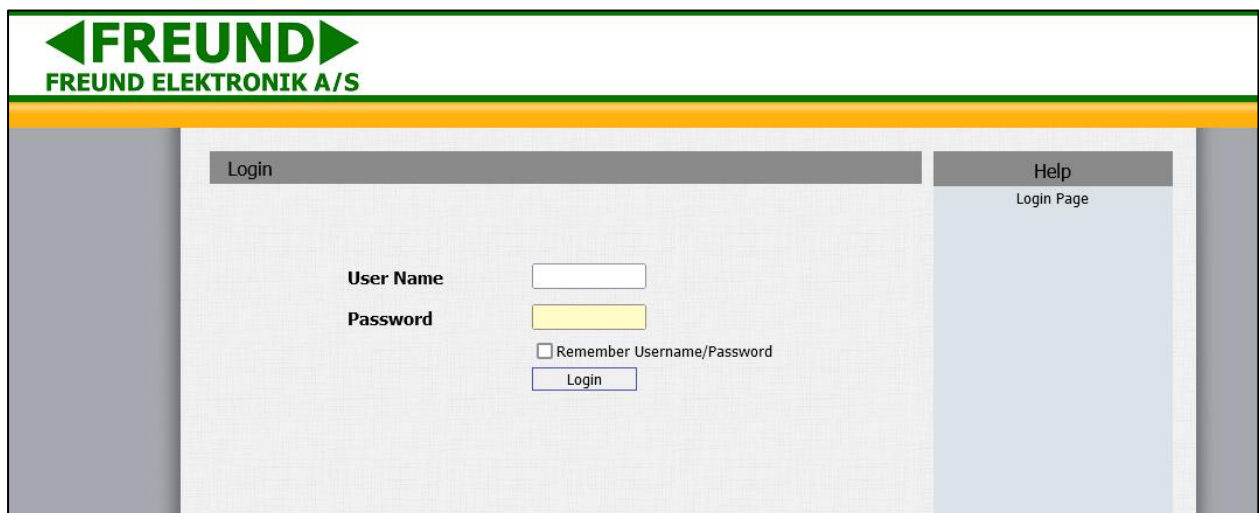
2.1 Getting Started

2.1.1 IP Announcement

When the device is powered on (continuous blue LED), press and hold the Call button for 5 seconds. Device will enter the IP Announcement mode and will read out the current IP address in the next format: "IP: X.X.X.X". To stop the device from reading out the IP address, press the Call Button again.

2.1.2 Access the device through Web Interface

On your PC, start a web browser and enter the devices' IP address. Following screen will show:



PICTURE 2

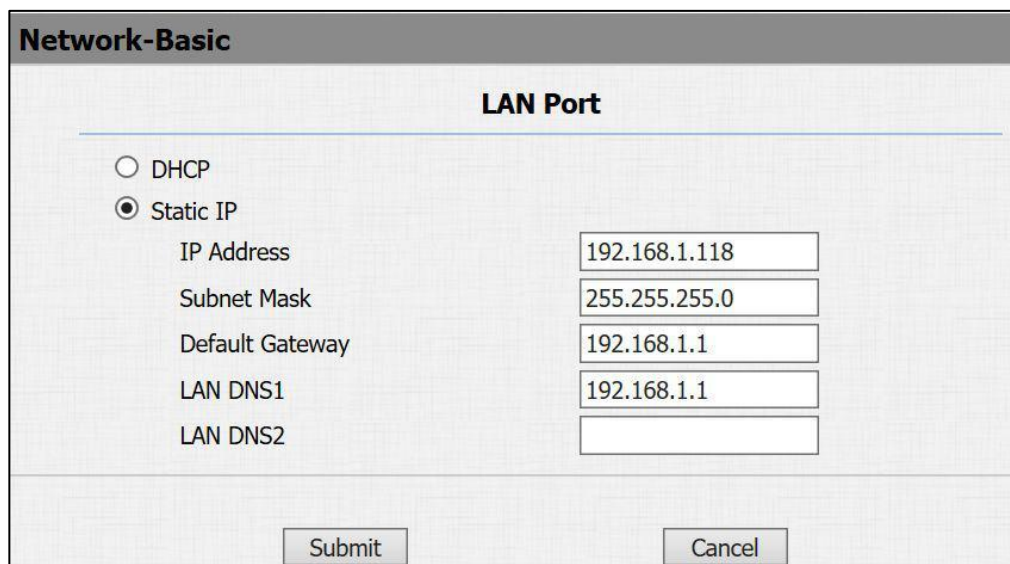
Type in username and password and click on "Login".

Default username: admin

Default password: admin

2.2 Network Settings

To choose how device obtains an IP address, click on **Network -> Basic**. Screen as shown in picture below will be displayed.



The screenshot shows a configuration window titled "Network-Basic" with a sub-section "LAN Port". It features two radio buttons: "DHCP" (unselected) and "Static IP" (selected). Below the "Static IP" option are five input fields for network parameters:

Parameter	Value
IP Address	192.168.1.118
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
LAN DNS1	192.168.1.1
LAN DNS2	

At the bottom of the window are "Submit" and "Cancel" buttons.

PICTURE 3

2.2.1 DHCP

FE-IPDS-20 is set to **DHCP** option by default. DHCP option means that device will get **IP Address, Subnet Mask, Default Gateway, and DNS Server Address** automatically from DHCP Server.

2.2.2 Static IP

If this option is selected, the user can manually set the **IP Address, Subnet Mask, Default Gateway, and DNS Server Address**. Picture 3 shows **Static IP** setting.

2.3 Account

Go to **Account -> Basic** to configure **SIP Account** and **SIP Server**.

2.3.1 SIP Account

Status: Showing the Account status

Display Label: Configure label displayed on Phones LCD screen

Display Name: Name which is displayed to other party call

Register Name: Enter extension number you want, and the number is allocated by SIP Server

Username: Username of the extension

Password: Password for the extension

Account-Basic

SIP Account

Status	Registered	
Account	Account 1 <input type="button" value="v"/>	
Account Active	Enabled <input type="button" value="v"/>	
Display Label	<input type="text" value="11151"/>	
Display Name	<input type="text" value="R20"/>	
Register Name	<input type="text" value="11151"/>	
User Name	<input type="text" value="11151"/>	
Password	<input type="password" value="••••••••"/>	

SIP Server 1

Server IP	<input type="text" value="47.88.77.14"/>	Port	<input type="text" value="5070"/>
Registration Period	<input type="text" value="1800"/>	(30~65535s)	

PICTURE 4

2.3.2 SIP Server 1

Server IP: Enter SIP Server's IP Address or URL.

2.4 Call Setting

Go to **Intercom -> Basic** to configure basic **Call Setting**.

2.4.1 No Answer Call

When enabled, if there is no answer from Push Button over 60s (default value), FE-IPDS-20 will call predefined number.

2.4.2 Push Button

Used to configure the destination number or IP you want to contact. If you would like to call multiple numbers at the same time, divide them by semicolon.

No Answer Call 1 and 2 is used to set up one or two no answer call number.

Intercom-Basic	
Basic	
Select Account	<input type="text" value="Auto"/>
No Answer Call	<input type="text" value="Disabled"/>
Push Button	
Key	Number
Push Button	<input type="text" value="192.168.35.57"/>
No Answer Call1	<input type="text"/>
No Answer Call2	<input type="text"/>

PICTURE5

2.4.3 Push Button Action

Action to execute: Choose suitable way to receive message or snapshot when pushing a button.

HTTP URL: If you tick the HTTP URL option, enter the corresponding HTTP server IP address in the HTTP URL area.

2.4.4 Web Call

Used to dial out or answer incoming call from the website.

2.4.5 Call and Dial Time

Max Call Time: Configure the duration of the call time.

Dial In Time: Configure the max incoming dial time (available when auto answer is disabled).

Dial Out Time: Configure the duration of No Answer Call time.

PushButton Action

Action to execute FTP Email Http URL

Http URL:

Web Call

Web Call(Ready) Auto

Max Call Time

Max Call Time (2~120Minutes)

Max Dial Time

Dial In Time (30~120Sec)

Dial Out Time (30~120Sec)

Push To Hang Up

Push To Hang Up

PICTURE 6

2.4.6 Push to Hang up

Used to enable or disable pushing the button to hang up the call.

2.5 Action

Go to **Intercom -> Action** to set an action receiver.

2.5.1 E-mail Notification

Senders e-mail address: Configure e-mail address of the sender.

Receiver's e-mail address: Configure e-mail address of the receiver.

SMTP = Simple Mail Transfer Protocol

SMTP server address: Configure SMTP server address of the sender (usually it is same with sender's email address).

Email Notification

Sender's email address	<input type="text" value="wanzheyu@gmail.com"/>
Receiver's email address	<input type="text" value="william.wan@gmail.com"/>
SMTP server address	<input type="text" value="smtp.gmail.com"/>
SMTP user name	<input type="text" value="wanzheyu@gmail.com"/>
SMTP password	<input type="password" value="••••••••"/>
Email subject	<input type="text" value="test"/>
Email content	<input style="height: 40px;" type="text" value="test"/>
Email Test	<input type="button" value="Test Email"/>

PICTURE 7

SMTP username: Used to configure username of SMTP Service (usually it is same with senders' e-mail address).

SMTP password: Used to configure the password of SMTP service (usually it is the same with the password of senders' e-mail).

E-mail subject: Used to configure the subject of an e-mail.

E-mail content: Field used to type in the content of an e-mail.

E-mail test: Ability to test whether the e-mail notification is available.

2.5.2 FTP Notification

FTP = File Transfer Protocol

FTP Server: Used to type in the URL of an FTP server.

FTP Username: Used to configure the password of an FTP server.

FTP Password: Used to configure password of an FTP server.

FTP Test: Ability to test whether the FTP notification is available.

FTP Notification	
FTP Server	<input type="text" value="ftp://192.168.35.118"/>
FTP User Name	<input type="text" value="admin"/>
FTP Password	<input type="password" value="••••••••"/>
FTP Test	<input type="button" value="Test FTP"/>

SIP Call Notification	
SIP Call Number	<input type="text" value="1101"/>
SIP Caller Name	<input type="text" value="william"/>

PICTURE 8

2.5.3 SIP Notification

SIP Call Number: Used to configure SIP Call number

SIP Call Name: Used to configure display name of the FE-IPDS-20.

2.6 Card Setting

In order to manage card access system, go to **Intercom -> Card Setting**.

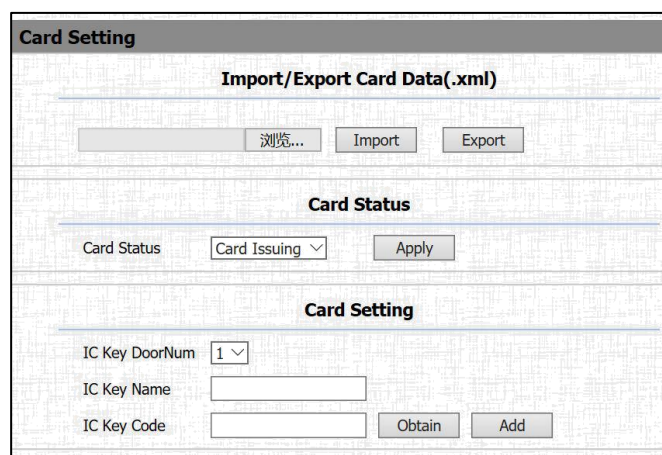
2.6.1 Importing/Exporting Card Data

FE-IPDS-20 has ability to import and export the card data file. It is useful when there is a large number of cards which have to be imported.

2.6.2 Obtaining and Adding Cards

To add the Card into the system, we need to change the status of the device to “Card issuing”.

1. Switch Card Status to **Card Issuing** and confirm by clicking “**Apply**”.
2. Click on “**Obtain**” and place the card onto the card reader area.
3. Type in the name of the card and select the door you wish to open.
4. Click “**Add**” to confirm and finish adding the card.
5. When finished adding the cards, switch Card Status to **Normal** and confirm by clicking “**Apply**”.



PICTURE 9

2.6.3 Door Card Management

Valid card information will be shown in the list. Administrator can select which card permissions to revoke (delete) or delete all.

Door Card Management				
Index	Name	Code	Door	<input type="checkbox"/>
1				<input type="checkbox"/>
2				<input type="checkbox"/>
3				<input type="checkbox"/>
4				<input type="checkbox"/>
5				<input type="checkbox"/>
6				<input type="checkbox"/>
7				<input type="checkbox"/>
8				<input type="checkbox"/>
9				<input type="checkbox"/>
10				<input type="checkbox"/>

Page 1

PICTURE10

2.7 Relay Settings

To configure relay, click on **Intercom -> Relay**.

2.7.1 Relay

There are three relay terminals: **NO**, **NC**, and **COM**.

NO – Normal Open

NC – Normal Closed

Note: Relay operate a switch and does not deliver power. User should prepare power adapter for external devices which are connected to the relay.

Relay	
Relay ID	RelayA <input type="text"/> RelayB <input type="text"/>
Relay Type	Default state <input type="text"/> Default state <input type="text"/>
Relay Delay(sec)	3 <input type="text"/> 3 <input type="text"/>
DTMF Option	1 Digit DTMF <input type="text"/>
DTMF	# <input type="text"/> 0 <input type="text"/>
Multiple DTMF	<input type="text"/> <input type="text"/>
Relay Status	RelayA: Low RelayB: Low

PICTURE11

Relay ID: FE-IPDS-20 supports two relays, which are user configurable.

Relay Type: Default state means NC and COM are normally closed;

Inverted state means NC and COM are normally open.

Relay Delay: Used to configure the duration of period in which the relay is open (value is in seconds). After the time has expired, the relay will close again.

DTMF Option: Used to select number of digits of DTMF Code. FE-IPDS-20 supports maximum of 4 digits DTMF Code.

DTMF: Used to configure 1-digit FTMF Code for remote unlock.

Multiple DTMF: Used to configure multiple digits DTMF code for remote unlocking.

Relay Status: Low – COM is connected to the NC;

High – COM is connected to the NO.

2.7.2 Web Relay

WebRelay

Type	<input type="text" value="Disabled"/>
IP Address	<input type="text"/>
UserName	<input type="text"/>
Password	<input type="password"/>

Open Relay via HTTP

Switch	<input type="text" value="Disabled"/>
UserName	<input type="text"/>
Password	<input type="password"/>

PICTURE12

FE-IPDS-20 supports an extra Web Relay.

Type: Used to select Web Relay type (currently, only 2N Web Relay is supported).

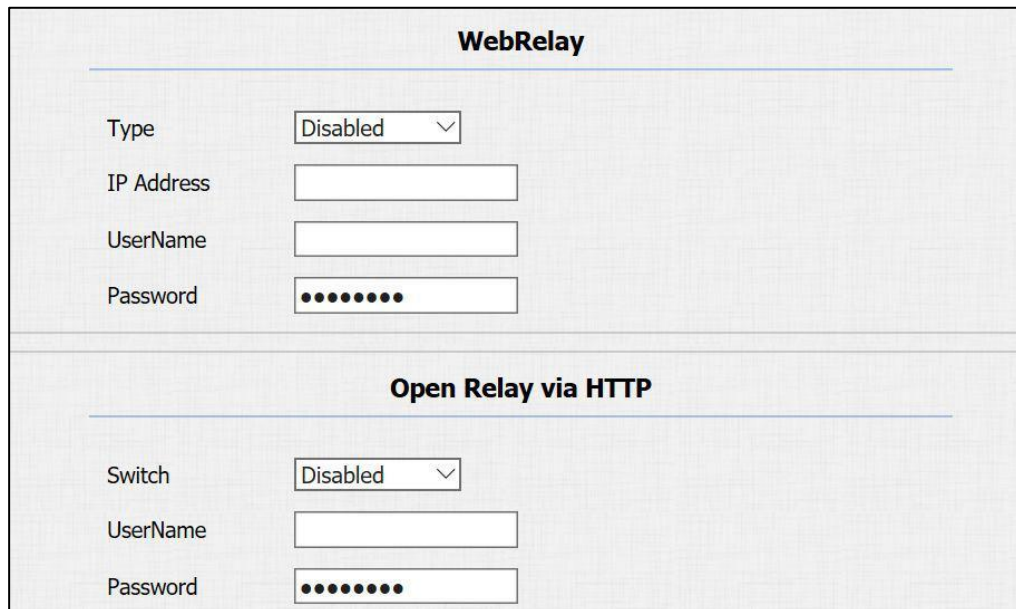
IP Address: Used to enter corresponding Web Relay IP Address.

Username: Used to enter the correct username of the Web Relay.

Password: Used to enter the correct password of the Web Relay.

2.7.3 Open Relay via HTTP

Users can use an URL to remotely unlock the doors.



The screenshot shows two configuration sections. The top section, titled 'WebRelay', contains a 'Type' dropdown menu set to 'Disabled', an empty 'IP Address' text box, an empty 'UserName' text box, and a 'Password' text box with ten dots. The bottom section, titled 'Open Relay via HTTP', contains a 'Switch' dropdown menu set to 'Disabled', an empty 'UserName' text box, and a 'Password' text box with ten dots.

PICTURE13

Switch: Enables the function; Disabled by default.

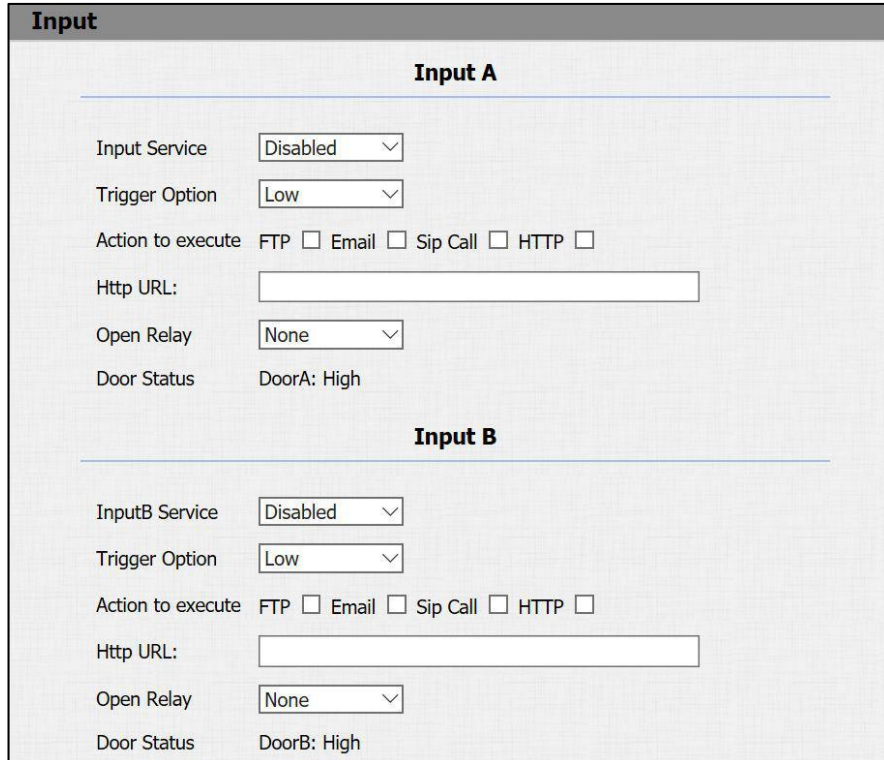
Username & Password: Used to allow users to set up the username and the password for the HTTP unlock.

URL format used is:

“http://IP_address/fcgi/do?action=OpenDoor&UserName=&Passowrd=&DoorNum=”

2.8 Input

FE-IPDS-20 supports two input triggers, Input A and B. To configure them, go to **Intercom -> Input**.



The screenshot shows a web interface titled "Input" with two sections: "Input A" and "Input B".

Input A Configuration:

- Input Service: Disabled (dropdown)
- Trigger Option: Low (dropdown)
- Action to execute: FTP Email Sip Call HTTP
- Http URL: [Empty text box]
- Open Relay: None (dropdown)
- Door Status: DoorA: High

Input B Configuration:

- InputB Service: Disabled (dropdown)
- Trigger Option: Low (dropdown)
- Action to execute: FTP Email Sip Call HTTP
- Http URL: [Empty text box]
- Open Relay: None (dropdown)
- Door Status: DoorB: High

PICTURE14

Input Service: Used to enable/disable input trigger service.

Trigger Option: Used to select Open-circuit trigger or Closed-circuit trigger.

Low – Connection between Door Terminal and GND is closed;

High – Connection between Door Terminal and GND is open.

Action to execute: Used to choose which action to execute after triggering.

HTTP URL: Used to configure URL if the HTTP option is chosen.

Open Relay: Used to configure which Relay to open.

Door Status: Used to show the status of input signal.

3. Advanced Settings

3.1 Intercom – Advanced

Photoresistor: If the environment lighting is poor, infrared LED on FE-IPDS-20 will turn on and the device will go into the night mode.

Photoresistor value relates to light intensity. If the value is larger, the light intensity is smaller. Users can configure the upper and lower limit. When the photoresistor value is larger than the upper limit, IR LED will turn on. In contrast, when photoresistor value is smaller than the lower limit, IR LED will turn off and device will change to normal mode.

Tamper Alarm: FE-IPDS-20 incorporates internal gravity sensor for its own security. After the Tamper Alarm is enabled, if the gravity of the device changes to certain point, the alarm will go off.

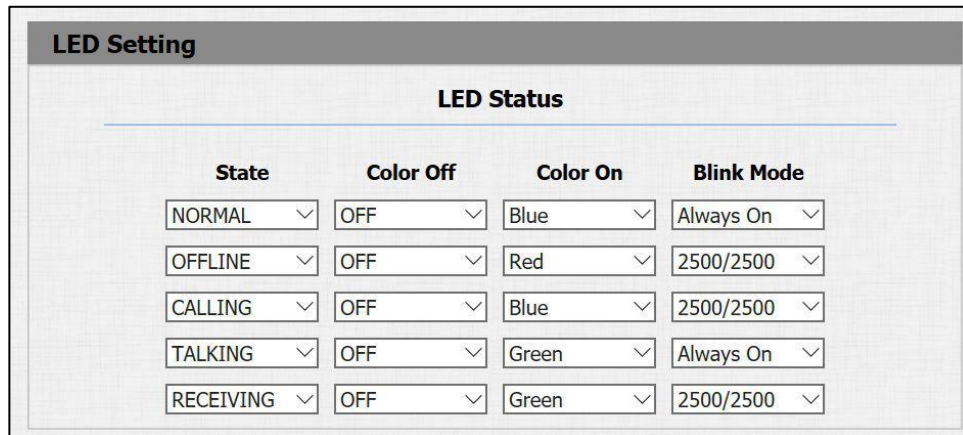
Gravity Sensor Threshold determines the sensitivity of the sensor.

Intercom-Advanced	
Photoresistor	
Photoresistor Setting	<input type="text" value="30"/> - <input type="text" value="37"/> (0~100)
Tamper Alarm	
Tamper Alarm	<input type="text" value="Disabled"/> ▾
Gravity Sensor Threshold	<input type="text" value="32"/> (0~127)

PICTURE15

3.2 LED Setting

There are five LED statuses for 20A: Normal, Offline, Calling, Talking and Receiving. Go to **Intercom->Led Setting**, to configure corresponding LED response.



State	Color Off	Color On	Blink Mode
NORMAL	OFF	Blue	Always On
OFFLINE	OFF	Red	2500/2500
CALLING	OFF	Blue	2500/2500
TALKING	OFF	Green	Always On
RECEIVING	OFF	Green	2500/2500

PICTURE16

3.3 Live Stream

Go to **Intercom -> Live Stream** to check the real-time video from an FE-IPDS-20A.

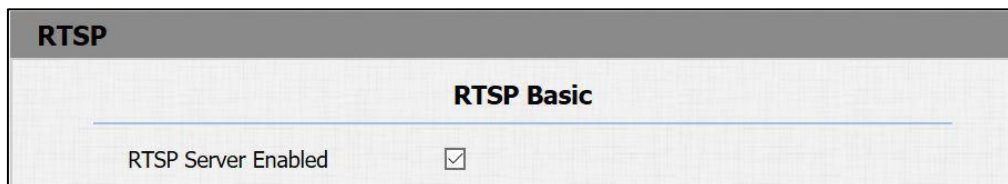
In addition, User can also take a picture by accessing this URL:

“http://IP_address:8080/picture.jpg”

3.4 RTSP

FE-IPDS-20A supports RTSP stream. Go to **Intercom -> RTSP** to enable or disable RTSP server. The URL for RTSP stream is:

“rtsp://IP_address/live/ch00_0”



PICTURE17

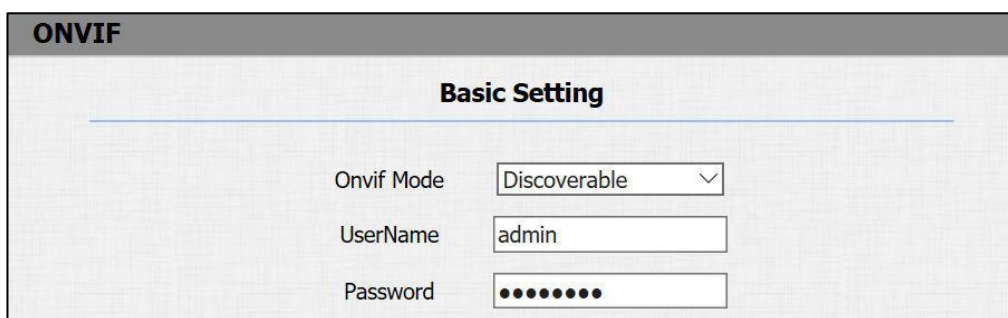
3.5 ONVIF

FE-IPDS-20A supports the ONVIF protocol. It means that 20A's camera can be searched by other devices (i.e NVR) that also support ONVIF protocol.

Go to **Intercom -> ONVIF** to configure ONVIF mode and its username/password. Switching ONVIF mode to “Undiscoverable” means that User must program ONVIF's URL manually.

ONVIF's URL is:

“http://ip_address:8090/onvif/device_service”



PICTURE18

3.6 Motion

FE-IPDS-20A supports motion detection. Go to Intercom -> Motion to configure detection parameter.

Motion Detection: Setting used to enable or disable Motion detection.

Motion Delay: To configure minimum time gap between two snapshots.

Action to execute: To choose which action to execute after triggering.

HTTP URL: To configure URL if HTTP action is chosen.

Motion Detect Time Setting: To make Motion Detect Time for a whole week.

Motion Detection

Motion Detection Options

Motion Detection

Motion Delay (0~120 Sec)

Action to execute

Action to execute FTP Email Sip Call HTTP

Http URL:

Motion Detect Time Setting

Mon Tue Wed Thur

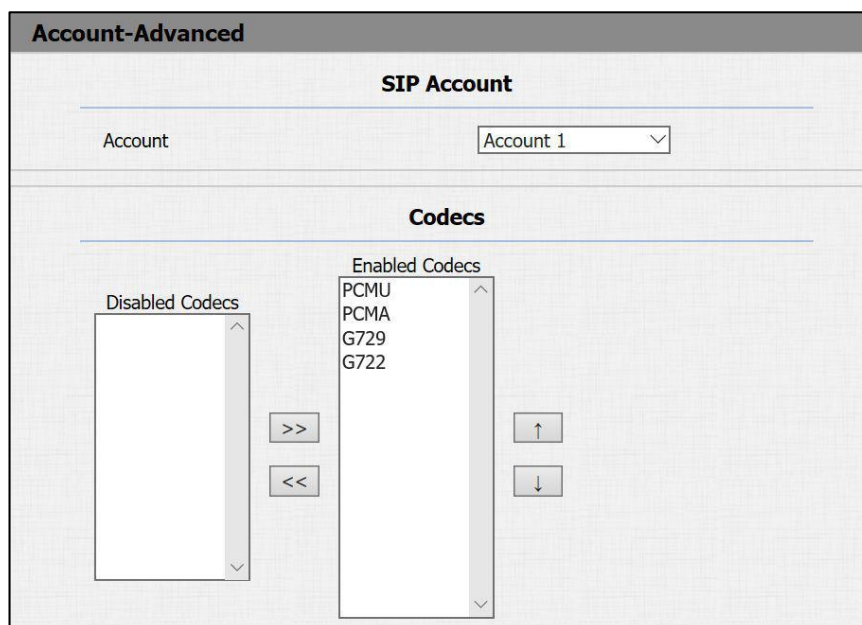
Fri Sat Sun Check All

: - :

PICTURE19

3.7 Account – Advanced

Go to **Account -> Advanced** to configure advanced settings for account.



PICTURE 20

3.7.1 Audio Codec

SIP Account: To choose which account to configure.

Audio Codec: FE-IPDS-20A supports four audio codecs: PCMA, PCMU, G729, G722. Different audio codec requires different bandwidth. User can enable or disable them according to different network environment.

Bandwidth consumption and sample rates:

PCMA:	64kbit/s	8kHz	
PCMU:	64kbit/s	8kHz	
G729:	8kbit/s	8kHz	Least consumption
G722:	64kbit/s	16kHz	Best quality

3.7.2 Video Codec

FE-IPDS-20A supports H.264 standard, which provides better video quality at substantially lower bit rates than previous standards.

Codec Resolution: 20A supports four resolutions: QCIF, CIF, VGA, 4CIF and 720P.

Codec Bitrate: To configure bit rates of video stream.

Codec Payload: To configure RTP audio video profile.

Video Codec	
Codec Name	<input checked="" type="checkbox"/> H264
Codec Resolution	4CIF
Codec Bitrate	2048
Codec Payload	104
DTMF	
Type	RFC2833
How To Notify DTMF	Disabled
DTMF Payload	101 (96~127)

PICTURE 21

3.7.3 DTMF

To configure RTP audio video profile for DTMF and its payload type.

3.7.4 Call

Max Local SIP Port: To configure maximum local sip port for designated SIP account.

Min Local SIP Port: To configure maximum local sip port for designated SIP account.

Caller ID Header: To choose Caller ID Header format

Auto Answer: If enabled, incoming call will be answered automatically.

Anonymous Call: If enabled, 20A will lock its information when calling out.

Anonymous Call Rejection: If enabled, calls who block their information will be screened out.

Missed Call Log: If enabled, any missed call will be recorded into call log.

Prevent Hacking: If enabled, it will prevent sip message from hacking

Call		
Max Local SIP Port	<input type="text" value="5062"/>	(1024~65535)
Min Local SIP Port	<input type="text" value="5062"/>	(1024~65535)
Caller ID Header	<input type="text" value="FROM"/>	▼
Auto Answer	<input type="text" value="Enabled"/>	▼
Anonymous Call	<input type="text" value="Disabled"/>	▼
Anonymous Call Rejection	<input type="text" value="Disabled"/>	▼
Missed Call Log	<input type="text" value="Enabled"/>	▼
Prevent SIP Hacking	<input type="text" value="Disabled"/>	▼

PICTURE22

3.7.5 Session Timer

If enabled, the ongoing call will be disconnected automatically once the session expired unless it's been refreshed by UAC or UAS.

Session Timer	
Active	Disabled <input type="button" value="v"/>
Session Expire	1800 (90~7200s)
Session Refresher	UAC <input type="button" value="v"/>

Encryption	
Voice Encryption(SRTP)	Disabled <input type="button" value="v"/>

PICTURE 23

3.7.6 Encryption

If enabled, voice will get encrypted.

3.8 Time/Lang

Go to **Phone -> Time/Lang** to select time zone for NTP server, as well as select the primary and secondary server and update interval.

Time/Lang	
NTP	
Time Zone	0 GMT <input type="button" value="v"/>
Primary Server	0.pool.ntp.org
Secondary Server	1.pool.ntp.org
Update Interval	3600 (>= 3600s)
System Time	10:54:38

PICTURE 24

3.9 Call Feature

Go to **Phone -> Call Feature**, to configure Phone-Call Feature.

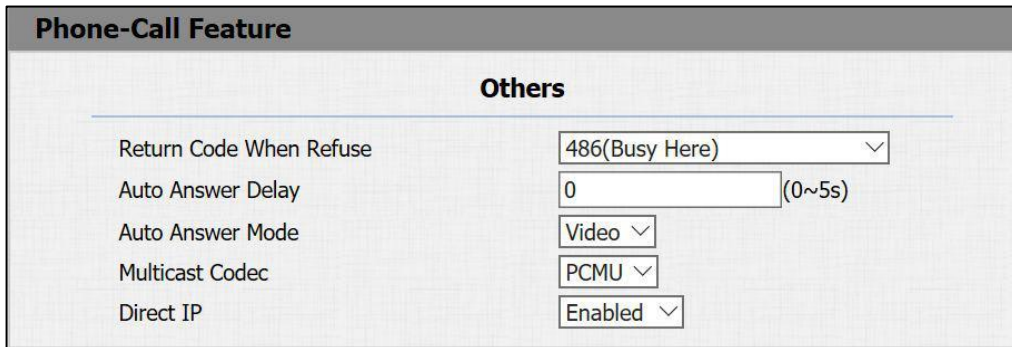
Return Code When Refuse: To configure Return SIP status code.

Auto Answer Delay: To configure answer delay when receiving a call.

Auto Answer Mode: To choose whether to answer with Video or Audio mode.

Multicast Codec: To configure video codec for multicast.

Direct IP: If disabled, incoming direct IP call will be blocked.



The screenshot shows the 'Phone-Call Feature' configuration page, specifically the 'Others' section. The settings are as follows:

Phone-Call Feature	
Others	
Return Code When Refuse	486(Busy Here) ▾
Auto Answer Delay	0 (0~5s)
Auto Answer Mode	Video ▾
Multicast Codec	PCMU ▾
Direct IP	Enabled ▾

PICTURE25

3.10 Voice

Go to **Phone->Voice**, to configure volume and upload tone file.

Mic Volume: To configure Microphone volume.

Speaker Volume: To configure Speaker volume.

Open Door Warning: Disable it, you will not hear the prompt voice when the door is opened.

IP Announcement: To setup the IP Announcement active time.

NOTE: Over the configured value, the phone will not announce its IP address, even you hold the button.

RingBack Upload: To upload the ring back tone by yourself.

Opendoor Tone Upload: To upload the Open-door tone by yourself.

PICTURE 26

3.11 Log

3.11.1 Call Log

In **Phone -> Call Log**, user can see a list of call which have been dialed, received, or missed. User can delete calls from the list.

Index	Type	Date	Time	Local Identity	Name	Number	
1	Received	2017-12-22	06:35:09	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.7 8@192.168.35.78	<input type="checkbox"/>
2	Received	2017-12-21	10:39:07	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.2 2@192.168.35.22	<input type="checkbox"/>
3	Received	2017-12-21	10:38:50	192.168.35.3 5@192.168.35.35	Unknown	192.168.35.2 2@192.168.35.22	<input type="checkbox"/>
4	Dialed	2017-12-21	09:57:26	11151@47.88.77.14	Unknown	11100@47.88.77.14	<input type="checkbox"/>
5	Dialed	2017-12-21	08:48:45	11151@47.88.77.14	Unknown	11100@47.88.77.14	<input type="checkbox"/>
6	Received	2017-12-21	01:59:01	11151@47.88.77.14	Extension 11103	11103@47.88.77.14	<input type="checkbox"/>
7	Dialed	2017-12-21	01:43:21	11151@47.88.77.14	Unknown	11100@47.88.77.14	<input type="checkbox"/>
8	Dialed	2017-12-20	09:25:45	11151@47.88.77.14	Unknown	11100@47.88.77.14	<input type="checkbox"/>
9							<input type="checkbox"/>
10							<input type="checkbox"/>
11							<input type="checkbox"/>
12							<input type="checkbox"/>
13							<input type="checkbox"/>
14							<input type="checkbox"/>
15							<input type="checkbox"/>

PICTURE 27

3.11.2 Door Log

In **Phone -> Door Log**, user can see a list of door logs which records card information and date.

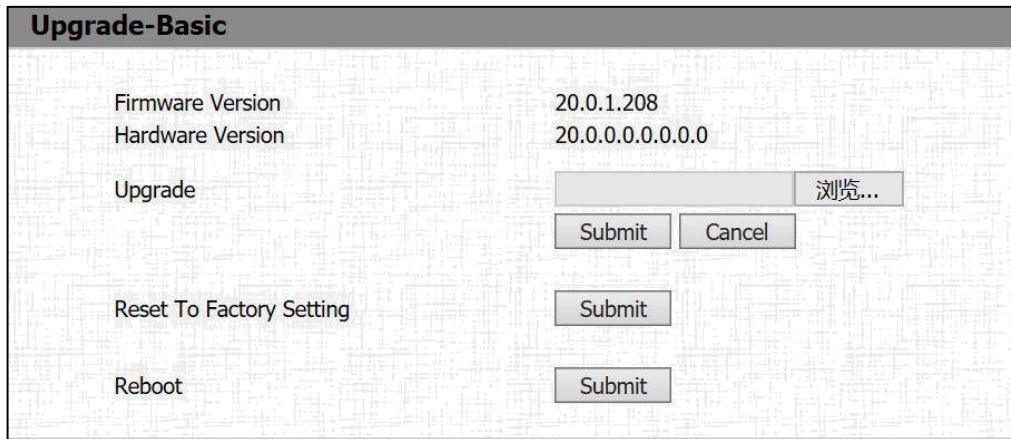
Index	Name	Code	Date	Time	
1	William	57FAC741	2017-12-22	10:30:34	<input type="checkbox"/>
2					<input type="checkbox"/>
3					<input type="checkbox"/>
4					<input type="checkbox"/>
5					<input type="checkbox"/>
6					<input type="checkbox"/>
7					<input type="checkbox"/>
8					<input type="checkbox"/>
9					<input type="checkbox"/>
10					<input type="checkbox"/>
11					<input type="checkbox"/>
12					<input type="checkbox"/>
13					<input type="checkbox"/>
14					<input type="checkbox"/>
15					<input type="checkbox"/>

PICTURE 28

3.12 Upgrade

3.12.1 Upgrade – Basic

In **Upgrade -> Basic**, user can upgrade the firmware, reset device to factory setting or reboot the device.

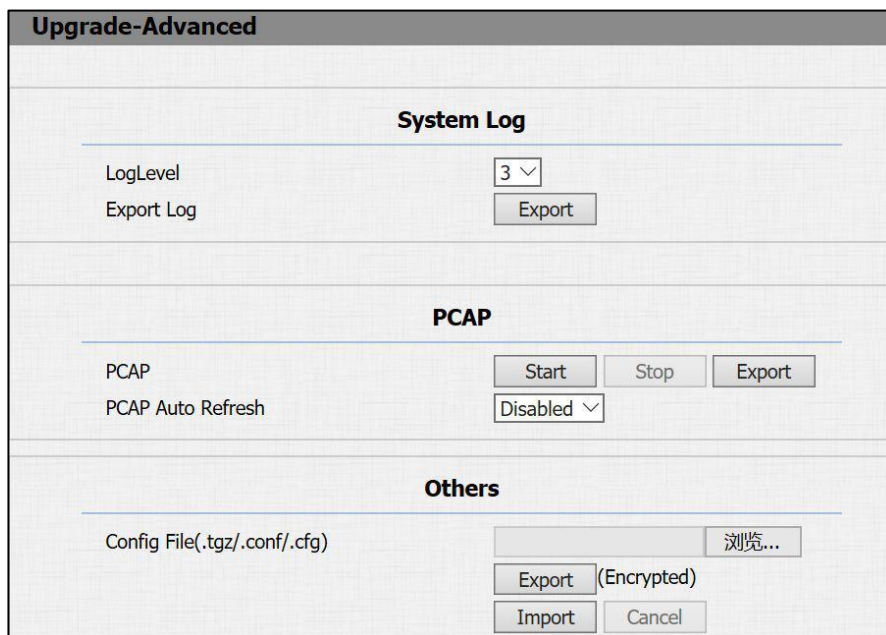


PICTURE 29

3.12.2 Upgrade – Advanced

System log: Used for debugging, higher Log Level means more specific system log will be recorded. If device failure occurs, user can export System Log which can be sent to Freund support technicians to attempt to resolve the issue.

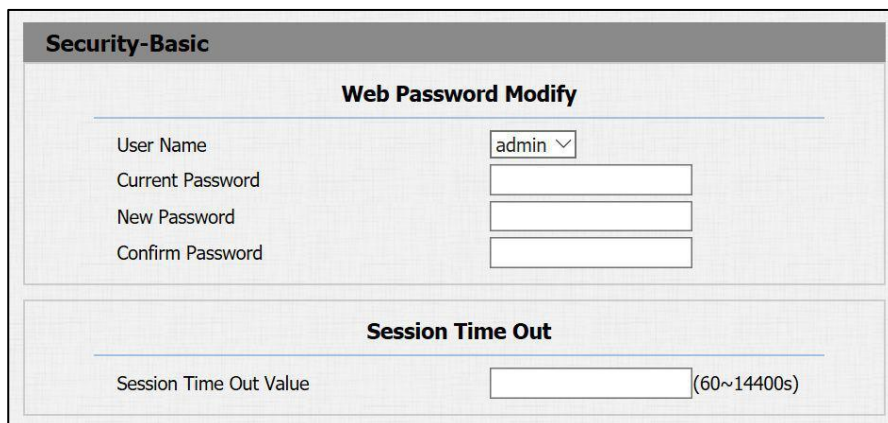
PCAP: To capture packet which is useful for us to address the issue.



PICTURE 30

3.13 Security – Basic

To modify password and session time, go to **Security -> Basic**.

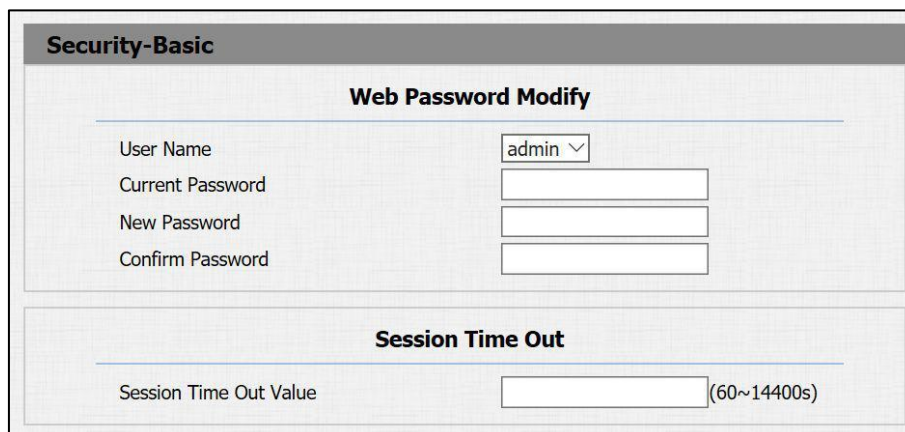


The screenshot shows the 'Security-Basic' configuration page. It is divided into two main sections: 'Web Password Modify' and 'Session Time Out'.
 In the 'Web Password Modify' section, there is a dropdown menu for 'User Name' with 'admin' selected, and three text input fields for 'Current Password', 'New Password', and 'Confirm Password'.
 In the 'Session Time Out' section, there is a text input field for 'Session Time Out Value' with a range of '(60~14400s)' indicated to its right.

PICTURE 31

3.13.1 Web Password Modify

To modify password of **Admin** and **User** accounts.



This screenshot is identical to the one in Picture 31, showing the 'Security-Basic' configuration page with the 'Web Password Modify' and 'Session Time Out' sections.

PICTURE 32

3.13.2 Session Timeout

To configure session timeout value. Over the value, user need to log in again to continue the configuration.



Freund Elektronik A/S, in cooperation with our sister company Freund Elektronika D.O.O. Sarajevo, is developing an IP-Based Intercoms, Audio Systems, Access Control and Smart Home solutions.

As a developer, manufacturer, and reseller, we have been self-improving and perfecting ourselves for over 30 years.

In the industry, we negotiate the most advanced and innovative solutions regarding the building communication. Our daily focus is on the development and user friendliness of our high quality and pleasantly designed products.

As a developer and manufacturer of our own IP-INTEGRA system, we have made a top-of-the-line products for Door Telephony, Public Audio, and Access Control solution.

Our development department, together with our partners, has created elegant and robust door phones, SIP-Centrals, Terminals, IP-Speakers, ACC Controllers, and applications with intelligent features using the most advanced technologies when available, and creating new technologies when they are not while keeping it simple for our customers.

