

F-PLS Power Line Security Camera	Version:	V2.0.1
	Model:	F-PLS
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F-PLS Power Line Security Camera User Manual



This description applies to the following models:

Model	Product Category
F-PLS200	Standard Edition
F-PLS210	Enhanced Edition



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1. Introduction

1.1. Product Description

Power line security system (F-PLS) is an important part of power facilities on-line monitoring system. The device provides a set of intelligent and visual real-time monitoring scheme for power facilities by using image acquisition, data resolution, remote control and other technologies.

F-PLS has a high performance 64-bit processor, based on Android operating system, with 2G/3G/4G communication, GPS positioning, 433MHz access, image recognition, wire temperature measurement, environmental monitoring, voice broadcast and other functions. It is the best choice for online monitoring in the power industry.

The product has been widely used in the field of transmission, substation and distribution monitoring, especially in the areas near the line corridor which is prone to illegal activities such as pole-climbing theft, ultra-high operation, sand excavation, mountain blasting, cofferdam digging ponds, burning, and natural disasters such as snow ice, rainstorm, landslides and so on.

Following picture shows the typical application :



Figure 1. Application Diagram



1.2. Features

Application Design:

- High-performance industrial 64 Bit processor
- Professional power supply design including under-voltage, over-voltage, over-current, reverse polarity, short circuit and surge protection function
- Using autocratic power cable, not easy to loose
- Stainless steel frame
- Dust-proof and water-proof design, IP67 Protection class
- Multiple power supply design: Solar panel + battery + super capacitor
- Aerial connector, not easy to loose

Stable and reliable:

- WDT Watchdog design to ensure system stability
- Adopt a comprehensive anti-dropped mechanism to ensure product is always on line
- Use eMMC FLASH Storage, high-speed data read and write to ensure security and stability
- Mainly taking photos, supplemented by video, high on-line rate, low communication failure rate
- 30 days endurance time of battery without power from solar panel
- 8 years life time
- ◆ 30,000 hours MTBF
- 2G / 3G / 4G antenna, GPS antenna, WIFI antenna, 433MHz Built-in Antenna
- Standard and Easy to Use:
- In line with State Grid, Southern Power Grid transmission line monitoring technical specifications in China
- Immediately into operation status after power-up
- Provide RS232/RS485, DI, DO and 12VDC, that can be directly extended to other line monitoring equipment
- WIFI Hot spot and wireless parameter configurable
- Integrated design with small size, light weight and compact structure



Multiple Functions:

- Support local storage eMMC FLASH and TF Card (optional)
- Support GPS, GLONASS and Beidoui location system
- Support 802.11a/b/g/n/ac WIFI network
- ◆ Internal RTC ,support NTP
- Support for timed photograph, remote manual photograph, duration of timed photograph can be set
- Support timed video recording, remote manual recording, duration of timed recording can be set
- Supports real-time video (optional)
- Support night vision function (optional)
- Support zoom function (optional)
- Support tower tilt monitoring function (optional)
- Support wire temperature monitoring function (optional)
- Support Pan Tilt control function (optional)
- Support weather monitoring function (optional)
- Support acousto-optic alarm (optional)
- Support remote call function (optional)
- Support configuration of WIFI Hot spot parameters through web
- Support remote monitoring, parameters configuration and firmware upgrading



1.3 Specifications

1.3.1 Wireless Parameters

Item	Content
	LTE FDD: B1/B3/B5/B8
	LTE TDD: B34/B38/B39/B40/B41
Standards and	WCDMA: B1/B8
Frequency Bands	TD-SCDMA: B34/B39
	EVDO/CDMA: BC0
	GSM: 900/1800 MHz
	LTE FDD: max. 300 Mbps (DL)/50 Mbps (UL)
	LTE TDD: max. 265Mbps (DL)/35Mbps (UL)
Theoretical	WCDMA: max. 384 Kbps (DL/UL)
Bandwidth	TD-SCDMA: max. 4.2 Mbps (DL)/2.2 Mbps (UL)
	EVDO: max. 3.1 Mbps (DL)/1.8 Mbps (UL)
	GSM: max. 107 Kbps (DL)/85.6 Kbps (UL)
Transmit power	< 24dBm
Reception sensitivity	>-109dBm

1.3.2 GNSS Parameters

Item	Content
Receive Type	GPS/GLONASS/BeiDou
	Cold Start: -146 dBm
Sensitivity	Capture: -158 dBm
	Tracing: -160 dBm
	Cold Start: 32s
TTFF	Warm Start: 30s
	Hot Start: 2s
Static Drift	6m



1.3.3 WIFI Parameters

Item	Content
Standard	Support IEEE802.11a/b/g/n/ac
Frequency	2.4G, 5G
Max. Rate	433Mbps
Transmit Power	<16dBm
Reception sensitivity	>-91dBm

1.3.4 Hardware System

Item	Content
CPU	8 cores, 64 bits, ARM Cortex-A53 processor, frequency 1.8GHz
Flash	16GB eMMC
DDR3	2GB
Camera	 Camera : normal 16 million pixels , night vision 2 million pixels (optional) , look down 16 million pixels (optional) Video format : 1920*1080P , 30f/s Zoom : 20 times (optional)
TF Card	32GB(optional)

1.3.5 Software System

Item	Content
Operating System	Android 7.1
APP	Compatible with Android system



1.3.6 Interface Type

Item	Content
Power Switch	Rocker switch
SIM/UIM Card	2 MICRO SIM card interface, support 1.8/3V SIM/UIM card
TF Card	Standard TF card interface
USB	1 USB 2.0 OTG, for debug
	Status: sleepnormally on, activationblinking, AP onfast blinking
	Network: connectedon, unconnectedoff
Power Output	two 12VDC outputs, max. current 1.5A
(optional)	
Serial Port (optional)	2 RS485, 1 RS232(share the same port with RS485)
DI (optional)	2 DI, input high: 5~30VDC, input low: 0~3VDC, load current: max.
	50mA @ 30VDC
DO (optional)	2 DO, open collector output
Audio Output	1 audio autant
(optional)	

1.3.7 Power Supply

Item	Content
Solar Panel	18V, 20W
Battery	6.4V, 10Ah, 30 days duration (without charge from solar panel, 10 pictures per day)

1.3.8 Physical Characteristics

Item	Content
Enclosure	PC/ABS, IP67
Dimension	Main unit: 224*120*127mm, Solar panel: 340*450*20mm
Weight	5.5kg (without extended equipment)

1.3.9 Other Parameters

Item	Content					
Temperature	Operating : -25 ~ +70°C; Store: -40 ~ +85°C					
Relative Humidity	100% (no condensation)					



2. Installation

2.1 Overview

F-PLS must be installed correctly in order to achieve the design features. Generally, the installation of equipment must be carried out under the guidance of qualified engineers approved by the company

2.2. Unpacking

For safe transport, usually product requires a good package, when you unpack the box, please take good care of the things inside of package.

The list inside of packing is as follows:

- 1 set Main unit
- 1pcs solar panel
- 2pcs Installation Hook
- 1pcs tilt module (optional)
- 1pcs Meteorological module (optional)
- 1pcs acoustic-optical module (optional)
- 1pcs temperature measurement module (optional)
- 1pcs Pan Tilt module (optional)
- 1pcs quality certificate and warranty card





2.3. Installation



Figure 2. Appearance Dimension

2.3.1 SIM / UIM or TF Card Installation



Figure 3. SIM/UIM or TF Card installation

Installation steps:

- 1) Unscrew two screws on card cover, then remove the card cover
- 2) Turn off the power switch (it is not allowed to install SIM / UIM or TF card with power)
- 3) Install SIM / UIM or TF card (metal contacts of SIM / UIM or TF card should face downwards)
- 4) Turn on the power switch
- 5) Install the card cover, tighten the screws



2.3.2. Main unit Installation



Figure 4

Figure 5



Installation steps:

1) As shown in Figure 4, pull out and fix the cable of solar panel to the back of the panel and the edge of the frame, and pre-lock the screws 1 and 2

2) Pre-adjust the direction of solar panel and main unit according to the direction of power line.

3) Use your phone or PC to configure the device parameters. (Refer to 3.1)

4) As shown in Figure 5, hook the iron with two screw hooks and lock the screws 1 and 2

5) As shown in Figure 6, adjust the solar panel angle and camera angle, and lock the screws 1, 2, 3 and 4.

Note:

1) Camera direction: horizontal or downward, it is forbidden to face up. and the potential danger area around the line / tower (such as construction site, sediment, pool, fire, etc.) shall be in the center of the image.

2) Solar panel direction: 10 ° south by west of solar panel, mainly facing south under the premise of avoiding blocking.

3) Installation height: the lowest point of conductor sag is the best photo angle, try to install it at a high place to prevent theft, and try to select the cross brace for installation.



3. Operating Instructions

3.1. Device Configuration

1) Install SIM and TF card (refer to Section 2.3.1).

2) Activate the device WiFi hot spot (Name: F-PLS200_******, where ****** is the factory number) by using the magnet near the reed switch (as shown in Figure 7)



Figure 7.

3) Use the WIFI of Computer or mobile phone to connect the hot spot (default password: 123456).

- 4) Use your browser and enter: http://192.168.43.1:8088/
- 5) Log in the page, the default user name and password are both "admin".

Power Line S	Security System
Username:	admin
Password:	•••••
	Login

Figure 8



6) Set the server IP and server port on the "Network" page (for example, server IP of the Four-Faith platform: 212.64.11.125, port: 1910).

Info	Power	Network	Equipment	Rule	Info	SIM	Protocol	User
Se	rver IP:	212.64.11.125	Pc	ort: [1910			
			Submit	Rese	et			

Figure 9.

7) Set parameters of camera, video recording and data acquisition in "Rule Info".

nfo	Power	Network	Equipme	nt Rule Ir	nfo S	SIM Proto	col	Use
Dat	ta Acquisi	tion Interv	al (Min):	60				
Pho	to Shoot	ing Interva	l (Min):	60				
Pho	to Shoot	ing Time R	ange:	20:00:00	_	08:00:00		
Vid	eo Recor	ding Interv	al (Min):	30				
Du	ration of	Video (s):		20				
Vid	eo Recor	ding Time F	lange:	20:00:00	<u> </u>	08:00:00		
			Submit	Reset				

Figure 10.

8) Click Submit and restart the device to make the configuration take effect



3.2 Platform Configuration

1) Prepare a PC, enter "https://cs.four-faith.net/ffem-admin/login.html" in the browser, and log in to the system. (please contact our staff for initial account number and password)

Pov	ver Line Security Syster	n
	User Name Password	
	CAPTCHA Login	

Figure 11.

2) After login, enter "Org Management", click "Add" to establish a group.

Device System User Ma Role Ma	inagement inagement inagement	394 39(+ Add	Operation	Paren
Figure 12.				Figure 13	
Add					
Father node:	国网协议测试单位				
Child node * :	Child node				
GroupType * :	Group				
Remark :					





3) Select the newly added group in the organization tree on the left, click "add" to create a "line", and select "line" in the "group type"

Father node :	测试节点		
Child node			
GroupType 🖕 :	Line		
Remark :			



4) Select the newly added line in the organization tree on the left, click "Add" to build a "tower", select "tower" in the "group type".

Add	
Father node:	测试线
Child node * :	
GroupType * :	Tower
x* :	
Y* :	
Address * :	
Remark :	

Figure 16.

5) Select the newly added tower in the organization tree on the left, click "Add" to create a device, select "device" in the "group type"

Add		
Father node :	激試杆	
Child node * :	Child node	
GroupType * :	Device	
Remark :		

Figure 17



6) Click "Device" in the main menu, select the newly added device in the left organization tree, click "Install", enter the device ID and SIM card information in the pop-up installation interface, and click "OK" to complete the binding of device and platform..

State	: All		Attribu	te :	Device	Info	Param :	D	eviceNo
+ In	stall	🗎 Dismai	ntle	Batch	ı SetPara	m l	Batch Upgrad	le	📥 Export
	Add								×
		DeviceN	•••						
		I	MEI : [
		SI	ім1 : [
	Ş	SIM1 Pack	age :						
		SI	IM2 : [
	:	SIM2 Pack	age :						
							Save		Cancel

Figure 18.

Icon Description:



: Tower

Device (green icon indicates online, gray icon indicates Offline, red icon indicates an alarm, the question mark icon indicates not installed)



3.3 Platform Features

3.3.1. Login

Enter the account, password and verification code to log in the system . Please contact our staff for the initial account and password.

Pov	wer Line Security System	ו
	Q User Name Password	
	CAPTCHA Login	
	<mark>√</mark> Remember Me <u>English</u> ⊕文	

Figure 19.

3.3.2. Home Page

You can view the number of alarms, the total number of devices, the number of online devices, the online rate, the number of alarm types and the installation of extended modules in the past seven days.



Figure 20.





Click "Alarm Data in last seven days" to enter the list of alarm information in recent seven days. You can view and process the alarm information, as shown in the following figure:

	Operation	Address	DeviceNo	Alarm Typ	Alarm Info	Fault Time	Process State	DealTime	Handler	Description
1	2	国网协议测试单位测试节点_测试;	EL0005A123456789		crane	11-09 06:00	Unprocessed	11-09 06:00		
2	2	国网协议测试单位测试节点_测试;	EL0005A123456789		crane	11-09 18:00	Unprocessed	11-09 18:00		
3		国网协议测试单位测试节点_测试:	EL0005A123456789		crane	11-09 20:00	Unprocessed	11-09 20:00		
4	2	国网协议测试单位测试节点_测试:	EL0005A123456789		crane	11-09 21:00	Unprocessed	11-09 21:00		
5		国网协议测试单位测试节点_测试;	EL0005A123456789		crane	11-09 22:00	Unprocessed	11-09 22:00		
6		国网协议测试单位测试节点_测试;	EL0005A123456789		crane	11-10 06:00	Unprocessed	11-10 06:00		



Click "Device Count" to enter the list of equipment management information to view the details of the equipment, as shown in below figure:

State		AI	I Attribu	te : Devi	celnfo Param :	DeviceNo	Cont	ent :		Q Query	
+1	nstall		🗎 Dismantle	Batch SetPa	aram Batch Upgrad	ie 📥 Export	20	mport 📥 Tem	plateDov	vnload	
			DeviceNo	Device St	IMEI	SIM1	CSQ1	SIM2	C SQ2	CurrentVersion	Operation
1	ļ		EL0005A12345678	9 Offline	A100005C2F5CA8/{	13313854394	80			F-PLS200V1.1.6(升级超时	
2	!		FFM000000000000	Offline	863178040363764/8	18559627249	80		80	F-PLS200V1.1.6	
3	1		FFM000000000000	Offline	863178040363764/8	18559635874	60		20	F-PLS200V1.1.7	
4	1		FFM000000000000	L'Offline	863178040373763/8			13625019645	80	F-PLS200V1.1.6	m 🛛 🕨 🗢 🖉 🔊 🏕
5	5		FFM000000000000	Offline	0/null	15359409126	80		80	F-PLS200V1.1.6	
6	6 1		EL0005A12345678	S Offline	null/null	13055249604				F-PLS200V1.1.0(升级超时	
7			EL0005A12345678	9 Offline	A100005C2F5C9C/{			18559639476	80	F-PLS200V1.1.7	• • • • • • •

Figure 22.





Click "Online Count" to enter the list of device management information to view the details of online devices, as shown in below figure:

State :	Onli	ne Att	ribute :	DeviceInfo	Param :	DeviceNo	Content :			Q Query	
+ Insta		🖻 Dismantle	Batch	SetParam	Batch Upgrade	e 📥 Expor	t 🔔 Impor		TemplateDownl	load	
		DeviceNo	Dev	ice St	IMEI	SIM1	CSQ1	SIM2	C SQ2	CurrentVersion	Operation

Figure 23.

3.3.3 GIS Positioning

You can view the location information of the device on the map, and click the device on the map to display the device details. It is green when the device is normal and red when it is in alarm.



Figure 24.

The system polls the alarm information regularly. If there is an alarm, the pop-up window on the right will display the alarm details. Click the alarm information, the page will jump into the alarm processing page.



3.3.4. Real-time Monitoring

Click "Live" in the main menu, and select the device you want to see, it can carry out real-time monitoring, manual photographing, manual video recording and remote calling on the platform system. On the right you can see the information about device. The last 3 unprocessed alarms will be displayed.

GIS	Live	Polling	🛦 Alarm	History	/ Device	/ (\$ \$				ይ ⊳י	
		暂无户	Pa				ActivateDevia Pan Attach to DeviceNo Administrator Advineted State Bettery Vottage Bettery Vottage	ce Takephoto 中部世界部分の別格 日のの5A122450780C 日のの5A122450780C 日のの5A122450780C 一 りのため122450780C 一 りのため122450780C 一 現代音響	Takevideo	Acquire	Data
					Q	Ŷ	Time Alarm Type Time Alarm Type Time	2019-12-02 14:34:15 高統告警 2019-11-30 12:03:05 高統告警 2019-11-28 19:11:45			
SensorName	Acousto-optic	Loudspeaker	Infrared	Tower Tilt	Wind Direction	Wind	Speed Air Pre	essure Temp	erature Hu	umidity F	lainfall
Time											

Figure 25.

Clicking "ActivateDevice", the device will be connected to the platform.

Clicking "TakePhoto", device will take pictures immediately and send to the platform

Clicking "TakeVideo", device can record video immediately and send to the platform.

Clicking "AcquireData", the device can get the monitoring data immediately and send the data to the platform.





Remote calling, real-time video, pan tilt control and focusing functions will be effective only after the device is activated.



3.3.5. Polling Monitoring

Click "Polling" in the main menu, it can monitor the historical pictures, videos and monitoring data of the devices in the group. The group can be created and deleted freely, and the polling time (time displayed by each device) can be set.

F-PLS System	🕈 Home 🖯 👤 GIS	Live	Polling
+ Add C Modify × Ded	tele		
Group N	ame Interval	(s)	
1 test	3		

Figure 27.

Click "Start", the information of the equipment in the group will be displayed circularly on the right, including the latest photo or video, equipment information, alarm information (the latest three unprocessed data), and the latest reported monitoring data.

Click "Pause" or "Stop" button to pause or stop the polling of pictures / videos and data.



3.3.6. Alarm Handling

Click "Alarm" in main menu, you can view the alarm details and alarm processing results. Support condition search and batch processing for alarms.

St	tate :	Ple	ase Select S	tate Alarm Type : F	Please Select Type	Device :		Date :		to End Time	Q Query	C Reset
	/ Bato	h Pro	icess									
			Operation	Address	DeviceNo	Alarm Typ	Alarm Info	Fault Time	Process State	DealTime	Handler	Description
			2	国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-09 06:00	Unprocessed	11-09 06:00		
				国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-09 18:00	Unprocessed	11-09 18:00		
				国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-09 20:00	Unprocessed	11-09 20:00		
				国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-09 21:00	Unprocessed	11-09 21:00		
				国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-09 22:00	Unprocessed	11-09 22:00		
				国网协议测试单位测试节点	ī_测试: EL0005A123456789		crane	11-10 06:00	Unprocessed	11-10 06:00		
				国网协议测试单位测试节点	i_测试: EL0005A123456789		crane	11-11 06:00	Unprocessed	11-11 06:00		
	3 4 5 6 7			国内协议测试单位测试节点 国内协议测试单位测试节点 国内协议测试单位测试节点 国内协议测试单位测试节点 国内协议测试单位测试节点	ூருத், EL0005A123456789 ஆருத், EL0005A123456789 ஆருத், EL0005A123456789 ஆருத், EL0005A123456789 ஆருத், EL0005A123456789	Image Alarn Image Alarn Image Alarn Image Alarn Image Alarn	crane crane crane crane crane	11-09 20:00 11-09 21:00 11-09 22:00 11-10 06:00 11-11 06:00	Unprocessed Unprocessed Unprocessed Unprocessed	11-09 21:00 11-09 21:00 11-09 22:00 11-10 06:00 11-11 06:00		

Figure 28.

Click the alarm type in the alarm list, you can view specific alarms.

Please S	elect Type	Device :
	DeviceNo	Alarm Ty
点_测试:	EL0005A123456789	Image Alam
点_测试:	EL0005A123456789	Image Alam
点_测试:	EL0005A123456789	Image Alarn
点_测试;	EL0005A123456789	Image Alarn
远_测试:	EL0005A123456789	Image Alarn

Figure 29.



3.3.7. Historical Inquiry

Click "History" in the main menu, you can view historical pictures / videos, voltages, sensor data, etc., and search can be done by time and data type

GIS Co Live	🍞 Polling 🛛 🛕 Alar	m History	Device Sys	tem 🖌
Data Type : Image and Video	Date : Start Ti	me to		

Figure 30.



3.3.8 Device Management

Click "Device" in the main menu, the equipment can be installed, dismantled, set parameters, upgraded remotely, imported and exported in batches

。) 👤 GIS	D Live	olling) 🖉 History	Devic	» Ĵ [System		<u>8</u> ⊪+ 1
State : A	JI Attribute : Dev	iceInfo Param : aram Batch Upgra	DeviceNo	Content :		emplateDown	Q Query	
	DeviceNo Device St	IMEI	SIM1	CSQ1	SIM2	C SQ2	CurrentVersion	Operation
1	EL0005A123456785 Offline	A100005C2F5CA8/{	13313854394	80		0	F-PLS200V1.1.6(升级超时	• • • • • •
2 🗖	FFM00000000001: Offline	863178040363764/8	18559627249	80		80	F-PLS200V1.1.6	
3	FFM00000000001: Offine	863178040363764/8	18559635874	60		20	F-PLS200V1.1.7	

Figure 31.

During the installation operation in platform, the device number of device must be filled in.

+ Install	Dismantle	Batch SetParam	Batch Upgrade	🕹 Export	🏝 Imp
	Add				×
	D	eviceNo * :			
		IMEI :			
		SIM1 :			
	SIM	1 Package:			
		SIM2 :			
	SIM2	2 Package :			
				Save	Cancel

Figure 32.



Select the device, click "Dismantle" to remove the device.

+ in	stall	🖻 Dismantle	Batch SetParam	Batch L	Ipgrade 📥 Expor	1 🔺	import 📥 T	TemplateDowr	load	
1		FFM000000000001:	Offline		15359409126				F-PLS200V1.1.6	
		信息								
		Are you s	sure to delete? ?							
			Ok	Cancel						



Click "Batch SetParam" button to batch set network information, extended device threshold, rule information and contact person. It takes 1 minute after batch modification to modify again.

Batch SetParam								
MainInfo Server IP and Port	120.42.46.98:1000		DomainName www.	baidu.com				
ExtendInfo Infrared (cm)	Tower Tilt(°) WindSpec	ed(m/s) Aco opti	usto- c(kPa) Temperature(°C)	Humidity(%RH) Rainfall(mm)				
RuleInfo				Video Record				
Video Interval(min)	60	Video Time range	00:00:00 - 23:59:59		5			
Photo Interval(min)	60	Photo Time range	00:00:00 - 23:59:59	HeartInterval(s)	60			
SampleInterval min)	20	Communication Interval(min)		Offline Interval(min)	60			
Sleep Time(min)	58	Restart Time	01-00-00					
ContactInfo								
Contact Person		Telephone						
dentify Object								
Truck Crane	Person Fire Kite	Balloon BirdNe						

Figure 34.



Click "export" to export the information of the selected device and save it locally in Excel format.

Click "template download" to download a template. Fill in relevant information according to the template, and you can import devices in batch.

Click "Import" to batch import the devices into the system.

On the right side of the device list, you can view device details, restart the device, modify device parameters, view logs, and upgrade firmware remotely.

l	DeviceNo	Device St	IMEI	SIM1	CSQ1	SIM2	CSQ2	CurrentVersion	Operation
1	FFM0000000000012	Offline	0/null	15359409126	80		80	F-PLS200V1.1.6	

Figure 35.



3.3.9 System Management

Click "System" in the main menu, you can add, modify, or delete users, roles, and organizations.

🔶 Home 🛛 🖉 GIS	Live	Polling	Alarm	History	Device	System -
-						User Management Role Management
State : All	Attribute :	DeviceInfo	Param :	DeviceNo	Content :	Org Management



In the "User Management" page, you can add, modify or delete an account.

		Q Query	+ Add C Modify 💼 I	Detele			
		Username	Department		Telephone		
1 🔲	test1	test1	厦门四信智慧电力科技有限	iieg@qq.com	18559022057	Normal	2019-04-02 11:38:54
2 🗖	15260812066	zerol	厦门四信智慧电力科技有限	chenzhaoyou@four-faith.com	15260812066	Normal	2019-04-08 10:02:01
3 🗖	test11	test11	厦门四信智慧电力科技有限	iieg@qq.com	18559022057	Normal	2019-04-09 00:28:55
4 🗖	gjcl	告警处理	厦门四信智慧电力科技有限	gaozhixiong@four-faith.com	13606027942	Normal	2019-04-22 17:49:54
5 🔲	lsch	历史查询	厦门四信智慧电力科技有限	gaozhixiong@four-faith.com	13606027942	Normal	2019-04-22 17:52:19
6 🔲	sbgl	设备管理	厦门四信智慧电力科技有限	gaozhixiong@four-faith.com	13606027942	Normal	2019-04-22 17:54:21
7 🗖	test3	测试2	厦门四信智慧电力科技有限	gaozhixiong@four-faith.com	13606027942	Normal	2019-04-22 19:24:06
8 🗖	hardware	HBY	厦门四信智慧电力科技有限	hebaoyi@four-faith.com	18650106435	Normal	2019-04-25 09:52:22
9 🗖	gw1	gw1	国网协议测试单位	aa@qq.com	18559022057	Normal	2019-06-12 11:13:10
10 🗖	yangzeng		国网协议测试单位	123123@qq.com	13123333333	Normal	2019-07-31 17:51:01

Figure 37.



In the "Role Management" page, you can add, modify or delete roles. In the role adding page, as shown in the following figure, you can select the corresponding permissions.

Add		
Role Name * :	Role Name	
Department * :	Department	
Remark :	Remark	
Functiona S S S S S S S S S S S S S S S S S S S	Vstem User Management More Add Modify	
	Role Management More Add Modify Delete Org Management	
	View Add Modify Delete	

Figure 38.

In the "Org Management" page, you can add, modify or delete the organization tree. On the node adding page, as shown in the following figure, there are four types of organization tree node: group, line, tower and device. The operations for each type of node are similar.

Add		×
Father node:	激試杆	
Child node * :		
GroupType * :	Device	
Remark :		
		Save

Figure 39.