Smart Multi Band Jammer User Manual

Model: PISCES-X

1. Network frequency

Operator	GSM		CDMA		GSM	
	Network Band	Frequency(MHz)	Network Band	Frequency (MHz)	Network Band	Frequency(MHz)
2G	GSM	934～954	CDMA	870～880	GSM	954～960
	DCS	1805～1835			DCS	1835～1850
3G	TD-SCDMA	1885～1915 2010～2025	CDMA2000	870～880	WCDMA	2130～2145
4G	TD-LTE	1880～1920 2320～2370 2575～2635	FDD-LTE	1855～1875 2110～2125	FDD-LTE	1835～1855

2. Jammer Introduction

The system is based on intelligent shielding management and control technology, and in the increasingly complex wireless signal environment, it realizes the green blocking of mobile phone signals, intelligent management and control, also has black and white list functions.

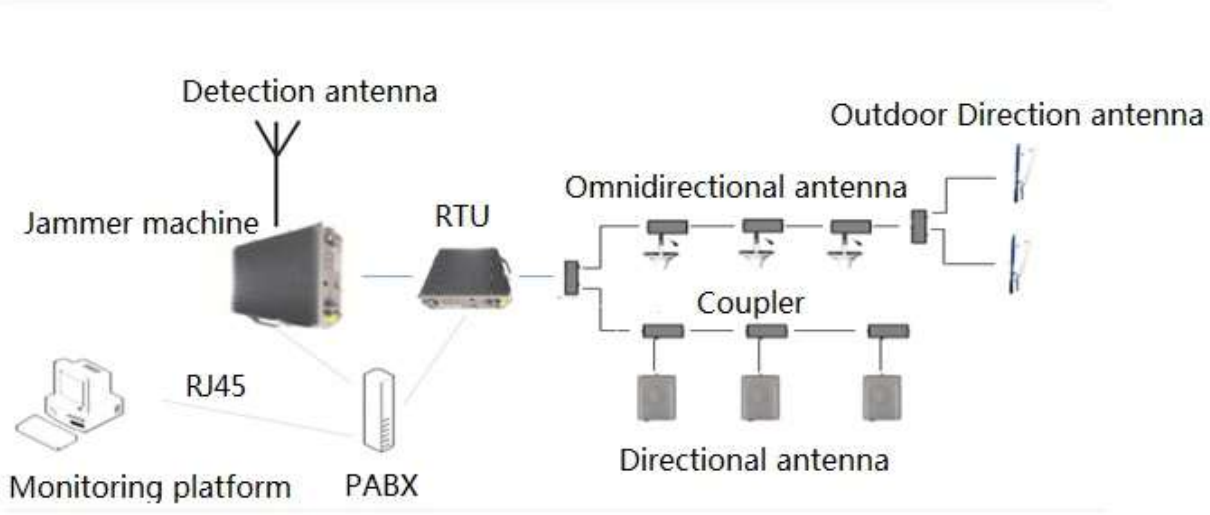
2.1 System structure

The mobile phone signal intelligent shielding management and control system is composed of an intelligent shielding system and a black and white list management and control system. The intelligent shielding system mainly realizes the entire network shielding of mobile 3G&4G, GSM and CDMA network.

The black and white list control system mainly implements the black and white list function of mobile 2G. The white list can realize the call and text messaging functions, and the black list restricts the phone and text messaging functions.

2.2 Intelligent shielding system

It consists of network management platform software, shielding control main equipment and intelligent shielding control remote equipment. RF transmission adopts optical fiber and feeder transmission media. The network management platform adopts TCP/IP protocol and adopts five types of transmission media.



Application Guide

The network management platform mainly realizes the standardized processing of the collected data, and imports the processed data into the database for storage. Based on the reported information, distinguishing the source of the reported information belongs to a specific network format.

The management platform realizes comprehensive data-based applications, and provides functions such as real-time reporting, historical reporting and query.

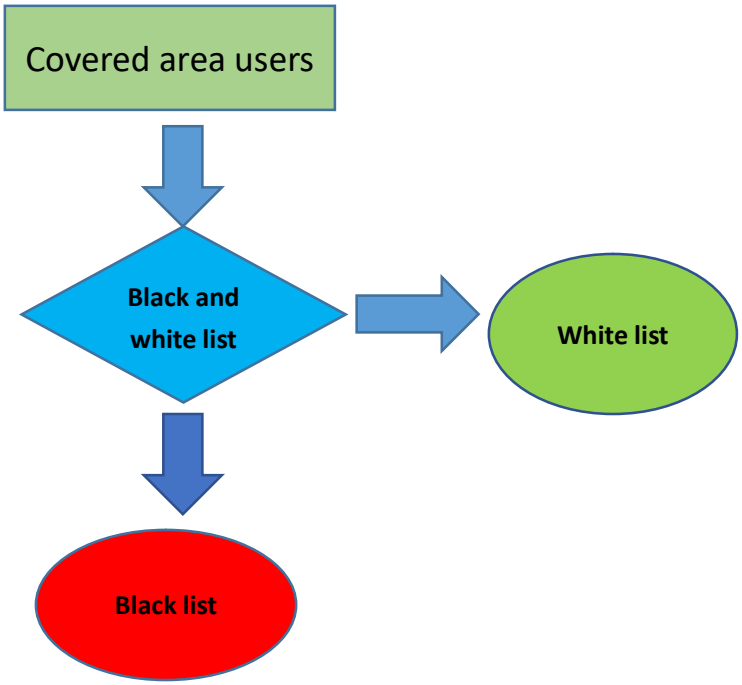
The management platform mainly includes the following aspects:

* Management of the collection equipment in the foreground
* Identity authentication (personnel management)
* Authorization management (determine the authority and role of personnel)
* Log management (scanning log, alarm log)
* Operation parameter management
* Time and time synchronization

2.3 Black and White List Management System

Mainly realize the standardized processing of the collected data, and import the processed

data into the database to release the white listed users, so that the white list can be used for calls and text messages.



2.4 System Parameter

2.4.1 Main machine of Smart Jammer

Name	Smart Control Jammer
Working frequency	CDMA： 865-880MHzGSM： 930-960MHz DCS1800+LTE： 1805-1880MHzTD-F：1885-1915MHzTD-A：2010-2025MHz LTE 2.1G+WCDMA： 2110-2170MHzTD-LTE 2.3G：2320-2370MHzTD-LTE 2.6G：2575-2655MHz
Max Output （each channel）	10±2dBm
Maximum	75±3dB

gain	
Gain adjustment range	≥25dB
Gain adjustment Precision	1dB-2dB
Adaptability	Adaptive adjustment of system parameters

2.4.2 RTU of Smart Jammer

Name	RTU of Smart Jammer
Working frequency	CDMA： 865-880MHzGSM： 930-960MHzDCS1800+LTE： 1805-1880MHzTD-F：1885-1915MHzTD-A：2010-2025MHz LTE 2.1G+WCDMA： 2110-2170MHzTD-LTE 2.3G：2320-2370MHzTD-LTE 2.6G：2575-2655MHz
Max output（each channel）	37±2dBm
Max gain	55±3dB
Gain adjustment range	≥25dB
Gain	1dB-2dB

adjustment Precision	
Adaptability	Adaptive adjustment of system parameters
Power consumption	≤500W

2.4.3 Antenna parameter

	Parameter						
Frequency（MHz）	880-960	1710-1850	1885-1915	2010-2025	2300-2400	2400-2483.5	2575-2635
Polarization mode	V						
Gain[a] (dBi)	≥2	≥3	≥3.5	≥4	≥4	≥4.5	≥4.5
Circularity[b] (dB)	±0.5	±1	±1	±1	±1	±1	±1
Vertical half power beam width[c]（°）	85	55	55	55	55	55	45
Voltage standing wave ratio	≤1.5						
Power tolerance (W)	≥50						
Intermodulation[d](dBm)	≤-85	≤-85	/				
Interface	N-Female						
working environment	-30℃～+45℃						
Storage environment	-40℃～+55℃						

2.5 Intelligent shielding system software monitoring platform function

Function 1: Time-sharing control

According to the actual needs of the site, the jammer can be controlled through the software platform.

Time-sharing control

Function 2: Equipment alarm

Alarm monitoring can be performed on each jammer through the system management platform.

System alarm

Function 3: Log function

Through the system management platform, you can view the alarm records of each blocker.

Log management

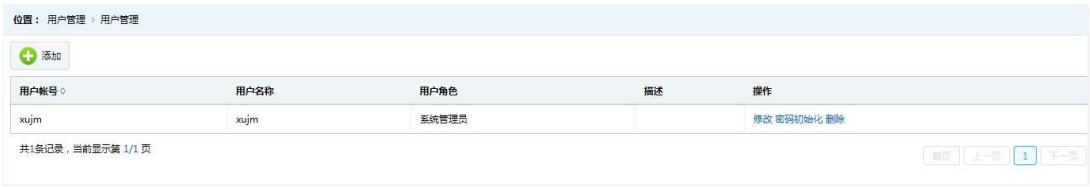
Function 4: unified management

A new shield can be added through the system management platform to realize the remote centralized management of the equipment by the system.

Remote management

Function 5: user management

Through the system management platform, the management authority of different personnel can be set

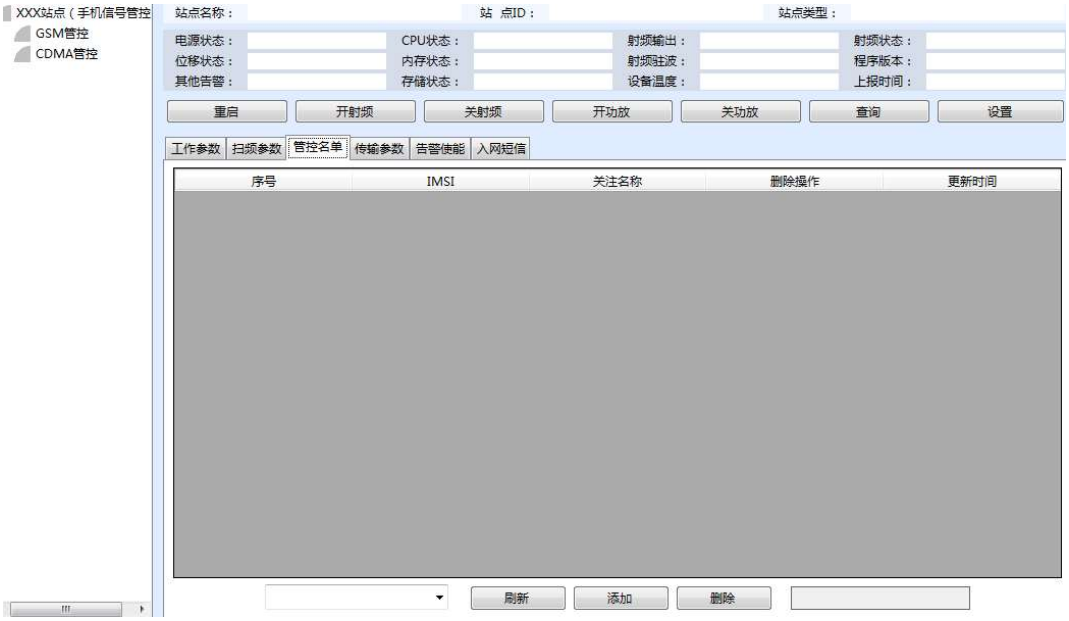


User Management

2.6 Black and white list control equipment platform software

1. Equipment Management

2. Black and white list management (black and white list);



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