Honeywell

Doppio

混合接警机（专业版）

说明书

User Guide

Document 800-16145 Rev. A

目录

Contents

装箱清单

拆封时请检查包装盒内的部件是否齐全。

名称	数量
混合接警机	1
说明书	1
串口线	2
电源线	1

若出现配件缺失，请及时与经销商联系。

1 产品介绍

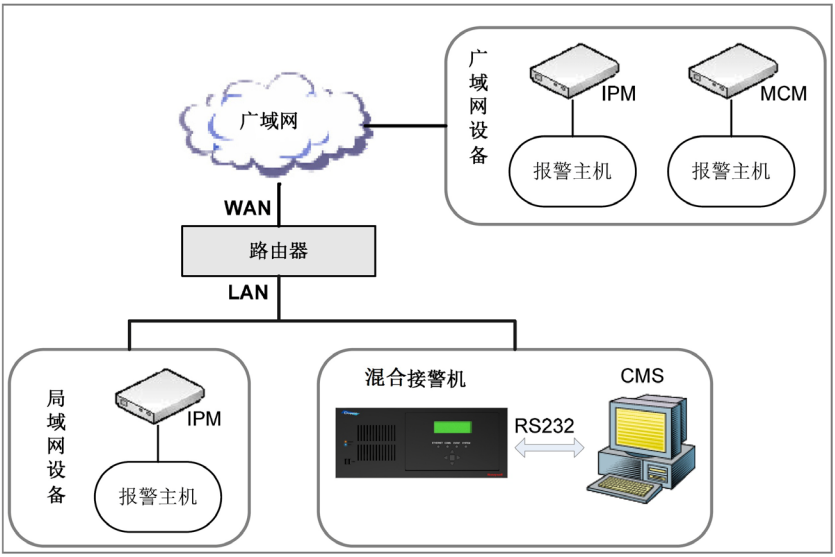
Doppio 混合接警机专业版（以下简称“混合接警机”）通过以太网接收 IP 模块发出的报警信息并将其转发到接警中心（CMS）。混合接警机可以连接多种型号的网络报警设备，基于 TCP 协议提供可靠通信，通过 RS232 串口线将接收到的警情上报到接警中心，并保存在自身数据库中。用户可以通过前面板按键、显示屏查询报警信息，还可登录“混合接警机系统”查询、管理、备份收到的警情。

混合接警机具有以下特性：

- 支持智能手机远程布撤防。
- 支持混合报警（PSTN 和 IP 报警）。
- 支持报警主机电话报警（CID、4+2 格式和 CFSK 格式）。
- 支持所有 Honeywell 网络设备和网络主机（IPM 系列、MCM 系列、COMPACT-4）。
- 支持网络报警设备在线管理（默认值 3000 户，最大支持 10000 户）。
- 支持网页反控、用户远程管理、系统配置、设备控制、设备在线管理和系统操作日志。
- 支持网络设备掉线/上线检测和在线管理。
- 支持前面板信息查询和报警状态查询。
- 基于 685 协议的 RS232 串口输出。
- 支持设备帐号管理。
- 支持报警数据的自动月备份。

混合接警机的应用示意图如下：

图 1-1 应用示意图



注：IPM：网络报警模块；MCM：无线通信模块；CMS：接警中心

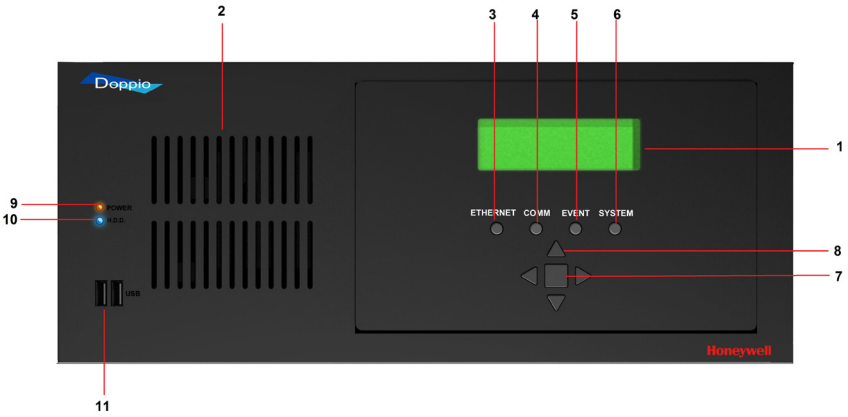
产品规格：

名称	参数
输入电压	100-240 VAC
尺寸	175 mm（H）×430 mm（W）×434 mm（D）
重量	13.20 kg
显示屏	4 行、20 字符真空荧光显示（VFD）
安装方式	机架式安装
工作温度	0°C～+50°C

2 产品示意图

前面板

图 2-1 前面板示意图



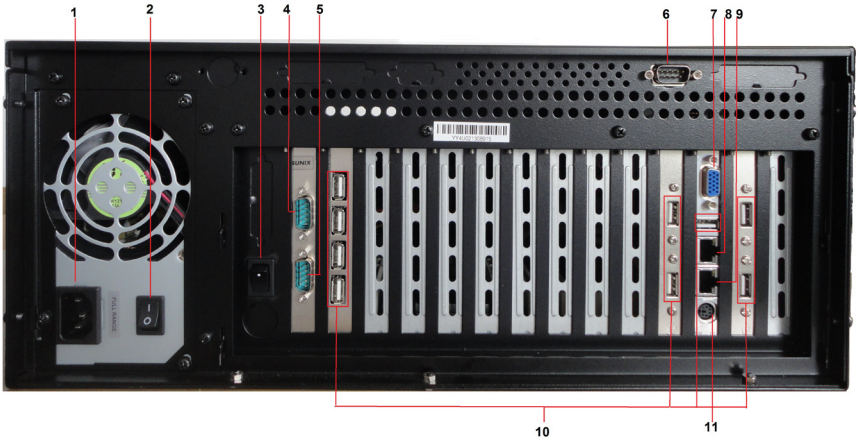
编号	名称	编号	名称
1	VFD 显示屏	5	系统状态灯（SYSTEM）
2	排风口	6	报告状态灯（EVENT）
3	网络指示灯（ETHERNET）	7	确认/菜单键（ENTER/MENU）
4	通讯指示灯（COMM）	8	四向导航键
9	电源指示灯	10	硬盘指示灯
11	USB 接口		

LED 指示灯状态说明见下表：

指示灯	说明
ETHERNET	当有 IP 设备连接到混合接警机时，绿灯亮；无任何设备连接时，绿灯灭。
COMM	当混合接警机与接警中心串口连接时，亮绿灯；未连接时，亮红灯。
EVENT	上报警情时，绿灯闪烁。
SYSTEM	当系统处于非正常工作状态，前面板与主板的串口线未连接，亮红灯；正常运行时，亮绿灯。

后面板

图 2-2 后面板示意图



编号	名称	编号	名称
1	三芯交流电源接口（220V 输入）	7	VGA 接口

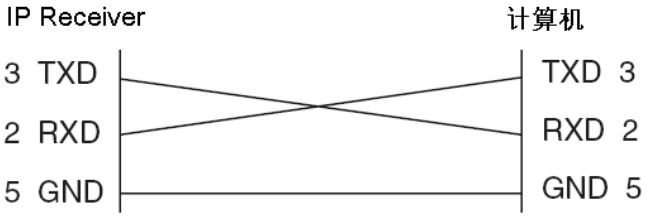
2	电源开关	8	网口 2
3	主机开关	9	网口 1
4	COM3 串口	10	USB 接口
5	COM4 串口	11	PS/2 接口
6	COM2 串口		

连接混合接警机与接警中心之前，用户需先在接警中心软件中添加混合接警机的自定义 CID 类型（CID 报告账号为 FFFE），如下表所示：

CID 类型	类型描述
E001	频繁连接
R001	频繁连接恢复
E002	端口扫描
R002	端口扫描恢复
E901	前面板通信故障
R901	前面板通信故障恢复
E903	网络接口断开
R903	网络接口断开恢复

接警中心可以通过交叉串口线连接至混合接警机上的 COM2 端口。通信端口 COM2 为 9 针 COM 端口。混合接警机的 9 针双母头串口线制作方法如下图所示：

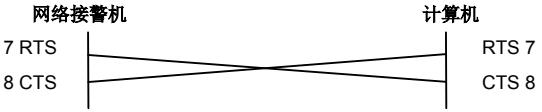
图 2-3 九针双母头串口线



注意

串口线使用说明：

- 建议使用混合接警机附件中的标配串口线。
- 若需使用其它串口线连接设备，串口线长度应小于 3 米。
- 若需使用长度大于 3 米的串口线连接设备，请安装串口隔离设备。
- 若启用串口硬件流控制功能，九针双母头串口线在前面制作的基础上，还需要按下图连接：



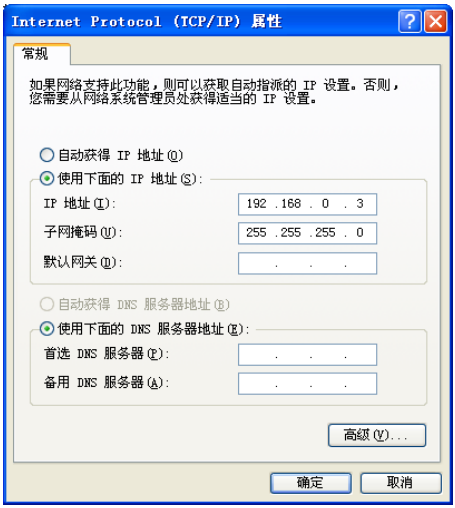
接警中心还可以通过混合接警机的 Web 反控功能或使用交叉串口线的 COM3 端口来对报警设备进行反控。接警中心软件支持串口进行布/撤防操作（由于第 3 方接警中心软件不同，具体操作步骤也不一样）。

3 系统配置

混合接警机上的两个千兆网口（见第 *4* 页的*图 2-2*）在出厂时的默认 IP 地址分别为 192.168.0.2 和 192.168.1.2，用户可根据需要为这两个网口配置不同 IP 地址，具体步骤如下：

1. 配置需要与接警机相连的 PC 机网卡，修改其对应网络连接的 Internet Protocol(TCP/IP) 属性，属性窗口如下图所示：

图 3-1 Internet Protocol(TCP/IP) 属性窗口



在上图所示的窗口中，选择“使用下面的 IP 地址”，并在“IP 地址”中设置一个与默认 IP 地址处于同一子网的 IP 地址（例如 192.168.0.3 或 192.168.1.3）。点击**【确定】**完成配置。

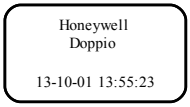
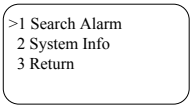
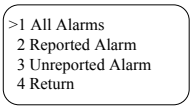
2. 将 PC 机与混合接警机的千兆网口相连。

注意 若第一步中配置的 IP 地址为 192.168.0.X，则 PC 机应与千兆网口 1 相连；若配置的 IP 地址为 192.168.1.X，则 PC 机应与千兆网口 2 相连。

3. 登录“混合接警机系统”配置网络地址（若与千兆网口 1 相连，则在浏览器地址栏中输入http://192.168.0.2登录该系统；若与千兆网口 2 相连，则在浏览器地址栏中输入http://192.168.1.2登录该系统）。详细配置步骤请见第 *12* 页*配置*一节。

4 功能操作

根据下表操作说明，进行接警机前面板屏幕操作（►、◄、▲、▼和 **ENTER** 键所在位置请参见第 *3* 页的*图 2-1*）：

屏幕提示	操作说明
 *图 1*	通电后，打开主机开关（见第 *4* 页*图 2-2*），前面板的 4 个 LED 灯轮流点亮，屏幕显示“Starting…”。
 *图 2*	系统正常启动后，前面板显示名称、日期和时间。
 *图 3*	在系统正常工作状态中，按►或 **ENTER** 键进入左图菜单。 按▲和▼键翻看选项； 按►或 **ENTER** 键选择菜单项； 按◄键或选择“Return”返回待机界面（见*图 2*）。
 *图 4*	**查询报警事件** 在*图 3* 中选择“Search Alarm”，显示左图菜单。 可查询三种警情： • 全部警情（All Alarms） • 已上报警情（Reported Alarm） • 未上报警情（Unreported Alarm） 未上报警情（Unreported Alarm）：如果混合接警机未能和接警中心连接，那么收到的警情全部储存在数据库中，保存为未上报警情。 按►或 **ENTER** 键选择菜单项； 按◄键或选择“Return”返回上级菜单。

选择需要查看的警情

在*图 4* 中选择需要查看的方式，显示左图菜单。

共都有三种查看方式：

- 最后一条警情（Last Alarm）
- 第一条警情（First Alarm）
- 按时间查询（Search by Time）

按►或 **ENTER** 键选择菜单项；

按◄键或选择“Return”返回上级菜单。

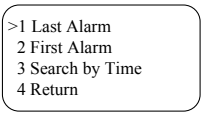


图 5

按时间查询

在*图 5* 中选择“Search by Time”，显示左图菜单。

默认显示当前时间，可以按►和◄键来选择需要调整的时间选项，按▲和▼键调整数字。

调整光标位置至年选项（此时屏幕显示 Return，见*图 6*）并按◄键返回上级菜单。

调整光标位置至秒选项（此时屏幕显示 Scan，见*图 7*），按►键可按照设定时间来查找数据库，并返回设定时间之前的最近一条警情；若没有警情，则返回设定时间之后发生的最近一条警情。

警情显示内容见*图 8*。

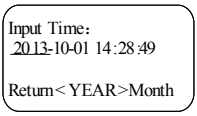


图 6

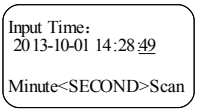


图 7

显示警情

按照以上三种方式（最后一条警情、第一条警情、按时间查询）查找出来的警情包括以下内容：

- Account — 账号（4 位账号或者 6 位账号的后 4 位）
- CID（Contact ID）、G（Group ID）、C（防区号）/ U（用户号）（根据上报警情而定）
- IP — 上报警情的设备 IP 地址（若无法获取到 IP 地址信息，则显示 0.0.0.0）
- 警情上报时间

按◄或▲键查看当前警情的前一条警情；

按▼或►键查看当前警情的后一条警情；

按 **ENTER** 键返回警情选择菜单（见*图 5*）。

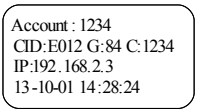


图 8

系统信息

在*图 3* 中选择“System Info”，显示以下信息：

- 软件的版本号（Version）
- 能够连接的最大设备数（MAXDev）
- 已经连接的设备数（NOWDev）
- 已经上报的警情数（Reported）
- 未上报的警情数（Unreported）
- 混合接警机连接 IP 设备的两个网口的 IP 地址（IP1、IP2）

按▲和▼键翻看信息；

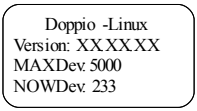


图 9

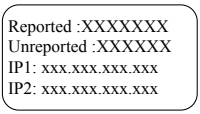
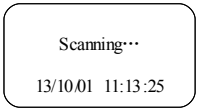
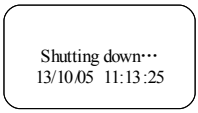


图 10

	按►、◄或 **ENTER** 键返回选择菜单（见*图 3*）。
 *图 11*	**系统异常显示** 当前面板和主板的串口线连接不正常并持续一段时间后（1 分钟以内），显示“Scanning…”。
 *图 12*	**关机** 按下后面板主机开关（见第 *4* 页*图 2-2*），系统需要大约 15 秒钟结束程序，完成后屏幕显示“Shutting down…”。 **注意：**关机时，请按主机开关（请勿长按）；请不要直接按“电源开关”关机（见第 *4* 页*图 2-2*）。

注意

- 无任何按键操作 30 秒后，屏幕自动返回待机画面（见*图 2*）。
- 每天凌晨 00:00:00 时，系统会对前面板屏幕进行检测，屏幕状态依次全亮 2 秒、全灭 2 秒，之后回到正常待机状态。

5 网络操作

登录

当混合接警机与计算机属于同一子网时，在计算机浏览器地址栏中输入接警机的 IP 地址（需查看具体 IP 地址，请参见第 *4* 章节*功能操作*中的*图 10*）登录混合接警机系统。

注意

如果计算机属于外网、混合接警机属于内网时，需先按第 *6* 章节（第 *61* 页）对路由器进行配置，再在浏览器地址栏中输入路由器 WAN 端的 IP 地址登录混合接警机系统（目前支持的浏览器为 Internet Explorer 6.0 和 Internet Explorer 8.0）。

若出现页面错位现象，请检查显卡设置是否正确。

图 5-1 混合接警机系统登录

点击“中文”进入中文界面；点击“English”进入英文界面。

输入用户名和密码（默认用户名：admin，密码：admin），点击【**登录**】进入系统（*图 5-3*）或点击【**重置**】清空用户名和密码。

若用户名或密码错误，则显示以下提示信息：

图 5-2 用户名密码错误

点击“返回重新登录”，返回到登录页面（见*图 5-1*）。

配置

成功登录系统后，显示如下页面。系统包括七个功能标签页：“报告”、“查询”、“控制”、“配置”、“用户管理”、“系统日志”和“掉线设备”。页面右上角显示登录用户的类型（超级管理员、管理员、操作员或访客）和设备状态（设备正常或设备掉线）。点击  ，退出系统并返回到登录页面。

图 5-3 配置

网络设置

“网络设置”页面显示两个网卡的相应的网址、子网掩码和网关地址，以及网络端口从连接到断开时蜂鸣器使能的端口（见*图 5-3*）。进行系统配置后（见第 *7* 页*系统配置*一节），用户必须为混合接警机分配一个未被其他设备占用的固定 IP 地址，并且最多可为每台接警机分配 2 个 IP 地址。按照以下提示配置混合接警机的 IP 地址以及网络端口从连接到断开时蜂鸣器使能的端口：

在“网络地址 1”中为千兆网口 1 设置一个未被其他设备占用的 IP 地址，在“网络地址 2”中为千兆网口 2 设置未被其他设备占用的 IP 地址，在“网络端口断开，蜂鸣器使能”中选择网络端口从连接到断开时，蜂鸣器使能的端口，点击**【确定】**保存配置，显示以下提示信息：

图 5-4 网络设置成功

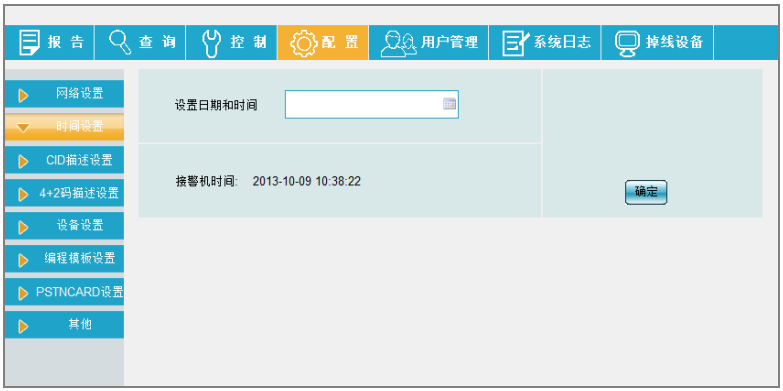
注意

- 如果网址不完整，系统显示错误提示信息。网址只能为 0-255 的数字。
- 网络地址 1 对应于千兆网口 1 的 IP 地址，网络地址 2 对应于千兆网口 2 的 IP 地址，配置时两者**不可**颠倒。

时间设置

在“配置”页面（见*图 5-3*），点击“时间设置”进入混合接警机系统时间配置页面，如下图：

图 5-5 时间设置



点击输入框，选择日期和时间，点击【**确定**】，修改混合接警机系统的时间。

注意	建议只在首次使用时修改时间；若在使用过程中修改时间，可能会影响系统数据。

CID 描述设置

在“配置”页面（见*图 5-3*），点击“CID 描述设置”进入混合接警机系统 CID 描述设置页面，如下图：

图 5-6 CID 描述设置

添加CID

在*图 5-6* 中，分别输入“CID”和“描述”，点击【**添加**】。

在英文界面，所添加的 CID 的描述内容为空。需在英文界面再次添加该 CID 的“描述”：进入英文界面，选择“CID 描述设置→显示所有 CID→详细信息”（见*图 5-9*）。

注意 “描述”内容不能超过 40 个字符。

删除CID

在“CID 描述设置”页面（见*图 5-6*），点击“删除 CID”，显示如下页面：

图 5-7 删除 CID

选择所需删除的 CID，点击【**删除**】。

显示所有CID

在“CID 描述设置”页面（见*图 5-6*），点击“显示所有 CID”，可查看及导出所有 CID，如下图：

图 5-8 显示所有 CID

点击【**导出**】，以 Excel 格式导出所有 CID 信息。

点击“详细信息”，可查看或修改相应 CID 的描述，如下图：

图 5-9 CID 详细信息

若需修改 CID 描述，修改完成后点击【**保存**】。若不修改，点击【**关闭**】。

4+2 码描述设置

在“配置”页面（见*图 5-3*），点击“4+2 码描述设置”进入混合接警机系统设备设置页面，可以添加、删除、和现实所有 4+2 码。

添加 4+2 码

点击“添加 4+2 码”，如下图：

图 5-10 添加 4+2 码

分别输入 4+2 码和描述，点击【添加】。

在英文界面，所添加的 4+2 码的描述内容为空。需在英文界面再次添加该 4+2 码的“描述”：进入英文界面，选择“4+2 码描述设置→显示所有 4+2 码→详细信息”。

“描述”内容不能超过 48 个字符。

删除 4+2 码

点击“删除 4+2 码”，如下图：

图 5-11 删除 4+2 码

选择需要删除的 4+2 码，点击【**删除**】。

显示所有 4+2 码

点击“显示所有 4+2 码”，显示所有 4+2 码，如下图：

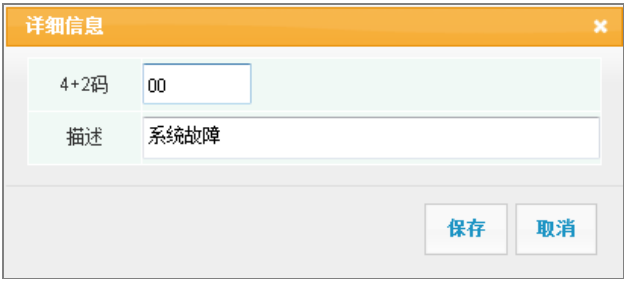
图 5-12 显示所有 4+2 码

点击【**导出**】，以 Excel 格式导出所有设备信息。导出的文件仅作为备份保存，请勿修改。

只有超级管理员具有导出权限。其它类型的用户登录后，此页面不显示【**导出**】按钮，不具备导出设备信息的权限。

点击“详细信息”，显示对应设备账号的详细信息，如下图：

图 5-13 详细信息



可修改 4+2 码和描述，修改完成后点击【**保存**】。若不修改，点击【**取消**】。

设备设置

在“配置”页面（见*图 5-3*），点击“设备设置”进入混合接警机系统设备设置页面，可以添加、删除、查询、查看和导入设备。

添加设备

点击“添加设备”，如下图：

图 5-14 设备设置

分别输入设备账号（设备账号只能是 4 位或 6 位阿拉伯数字 0 到 9 和/或字母 A 到 F）、MAC、安装地址、设备类型（从下拉框中选择）、安装员码和操作员码，点击【**添加**】。

注意

- 对于 MCM 模块，所输入的设备账号和 MAC 地址必须与实际 MCM 模块一致。
- 对于 IPM 模块，若为 IPM-23 Super 系列，则所输入的设备账号和 MAC 地址必须与实际模块一致；若为 IPM-23 或 IPM-Vista，只需 MAC 地址一致，设备账号可自行设置。

删除设备

点击“删除设备”，如下图：

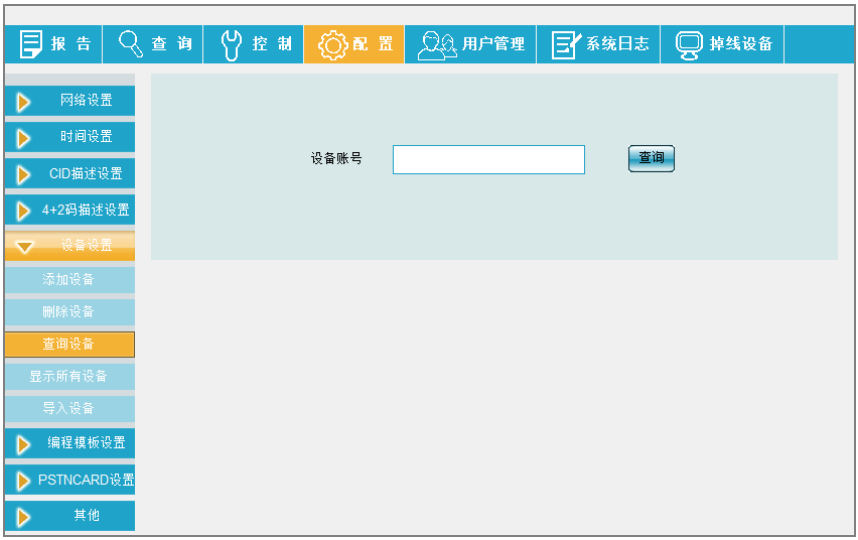
图 5-15 删除设备

选择需要删除的设备账号，点击【**删除**】。

查询设备

点击“查询设备”，如下图：

图 5-16 查询设备



输入设备账号，点击【**查询**】，显示相应的设备账号。

显示所有设备

点击“显示所有设备”，显示所有设备账号，如下图：

图 5-17 显示所有设备

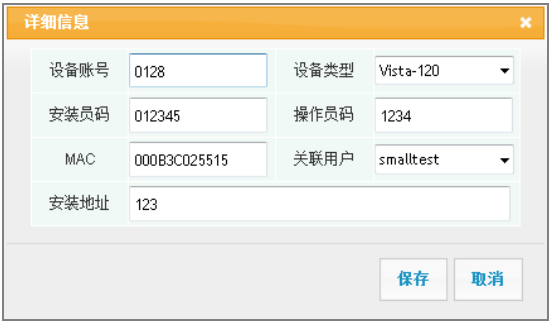
点击【**导出**】，以 Excel 格式导出所有设备信息。导出的文件仅作为备份保存，请勿修改。

注意

只有超级管理员具有导出权限。其它类型的用户登录后，此页面不显示【**导出**】按钮，不具备导出设备信息的权限。

点击“详细信息”，显示对应设备账号的详细信息，如下图：

图 5-18 详细信息



可修改设备类型、安装员码、操作员码和安装地址，修改完成后点击【**保存**】。若不修改，点击【**关闭**】。不可修改设备账号、MAC 和关联用户（点击下拉框查看所有关联用户）。

导入设备

点击“导入设备”，如下图：

图 5-19 导入设备

按以下步骤导入设备：

1. 导出所有设备信息（参考 *23* 页 *显示所有设备*）并保存文件（若已导出设备信息，可跳过此步骤）。请勿修改导出的文件，否则将不可被导入。
2. 点击 **Browse** 选择第 1 步中保存的文件，再点击【**导入**】。

导入设备成功后，需重启混合接警机。

注意	只有超级管理员具有导入设备的权限。其它类型的用户不具备该权限，且无法进入该页面。

编程模板设置

点击“编程模板设置”进入编程模板设置页面（见*图 5-20*），可以添加模板、删除模板、查看所有模板信息以及修改模板。

添加模板

在“编程模板设置”页面，点击“添加模板”，如下图：

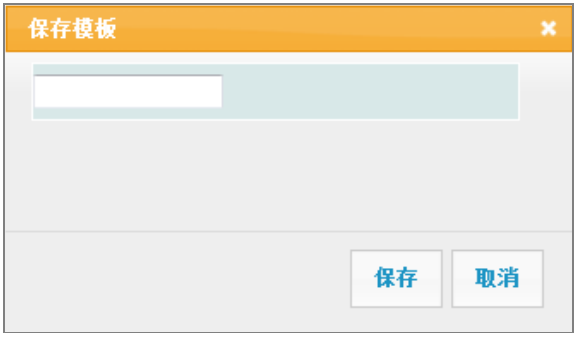
图 5-20 添加模板

从“模板类型”下拉框中选择模板类型，显示对应模板的详细信息，如下图：

图 5-21 模板类型

在“编程内容”栏修改编程内容，修改完成后，点击【**添加**】，弹出保存对话框，如下图：

图 5-22 模板名称



输入模板名称，并点击【**保存**】。

注意

- “编程模板设置”不适用与 Vista 系列主机。
- 模板名称只能为英文字母和数字，且不允许有空格。

删除模板

在“编程模板设置”页面，点击“删除模板”，如下图：

图 5-23 删除模板

选择需要删除的模板，点击【**删除**】。

显示所有模板

在“编程模板设置”页面，点击“显示所有模板”，如下图：

图 5-24 显示所有模板

点击“详细信息”，显示相应模板的详细信息，如下图：

图 5-25 模板详细信息

若需修改模板，修改后点击【**保存**】；若不修改，点击【**关闭**】。

PSTN CARD设置

在进行 PSTN CARD 设置前，请联系供应商或当地的技术支持人员在混合接警机上安装 PSTN CARD。安装步骤的相关内容，参考第 *64* 页*附录安装 PSTN CARD* 章节。

注意 混合接警机最多可安装 8 张 PSTN CARD。

在“配置”页面，点击“PSTN CARD 设置”进入 PSTN CARD 配置界面，如下图：

图 5-26 PSTN CARD 配置

界面上方显示有 8 个卡标签；界面左侧显示有 3 个线路标签；界面中部是各项参数名和参数值显示栏。混合接警机最多可支持 8 个 PSTN CARD，每个 PSTN CARD 有 3 路电话线。在配置参数时，对每一个卡的每一路电话线都需要单独进行配置。

点击右上角的“返回”，返回到“混合接警机系统”配置页面（*图 5-3*）；点击“退出”，返回到“混合接警机系统”登录界面（*图 5-1*）。

配置线路参数

以配置“卡_1”的“线_1”为例，如下图：

图 5-27 卡_1 线_1 配置

点击“卡_1”，并选择“线_1”。“卡_1”和“线_1”标签变成橙色，表明当前用户正在查看或编辑的是“卡_1”的“线_1”。

- 在该界面可配置的参数如下表：

表 5-1 各项参数定义及参数值范围

参数名	参数定义	值范围
1 号/2 号握手音格式	第一个/第二个握手音格式。（DTMF 则为接收 DTMF 格式的数据，FSK 则是接收 FKS 格式的数据）	DTMF/FSK
1 号/2 号握手音持续时间	对 DTMF 和 FSK 都无效，作为保留使用。	无
1 号/2 号握手音等待时间	在 DTMF 握手音格式下有效，表示在 1400 和 2300 握手音信号之间的时间间隔。对 FSK 无效。	0~255ms
1 号/2 号握手音确认持	在 FSK/DTMF 握手音格式下有效，表示	0~65536ms

续时间	握手音发出的持续时间。	
振铃次数	振铃音次数。即设置 PSTN CARD 接收到多少振铃音后才摘机。	0~255
来电显示格式	支持来电显示。（FSK format 则接收 FSK 格式来电显示；DTMF format 则接收 DTMF 格式来电显示；no support 则不支持来电显示接收）	FSK format/DTMF format/NO support
来电显示等待时间	在收到第一次振铃音后等待 DTMF 格式来电显示数据的等待时间。只对 CallerID_Support 是 DTMF format 设置时有效。	0~255（单位 100ms）
来电显示接收增益一/二	接收来电显示时的接收增益。	0db/6db/12db/18db/24db
接受增益一/二	摘机后接收报警数据时的接收增益。	0db/6db/12db/18db/24db
发送增益一/二	发送握手音等数据时的发送增益。	-31.5db~24db
电话线检测周期	判断端口上面是否接上电话线的周期。	0~255（单位 100ms）
振铃音最大周期	保留未使用。	无
振铃音最小周期	只要当单次振铃音的持续时间大于此数值时，PSTN CARD 才可以检测到这次振铃音，主要用来调节可以被 PSTN CARD 检测到的振铃音的有效宽度。	0~255ms
振铃音频率	只有当单次振铃音中触发的中断间隔时间小于此时间时，PSTN CARD 才可以检测到这次振铃音，主要用来调节 PSTN CARD 支持的振铃音频率。	0~255
CFSK 握手超时时间	保留暂时未使用	无
FSK 发送增益寄存器	用来设置 FSK 信号发送增益，计算规则是 db =（FSK 寄存器 - 63）/2	0~255
可检测最小 DTMF 持	这个是检测时间，只有当 DTMF 信号持续收到时间大于等于这个时间，才会认为	0~255

续时间	这个 DTMF 是有效的。	因每个单位是 0.5ms，所以最大值为 255*0.5 = 127.5ms
可检测最小 DTMF 停止时间	这个是检测时间，只有当 DTMF 信号持续消失时间大于等于这个时间，才会认为这个 DTMF 信号已经结束。	0~255 因每个单位是 0.5ms，所以最大值为 255*0.5 = 127.5ms。
可检测最小 DTMF 信号强度一 **可检测最小 DTMF 信号强度二**	这是 DTMF 信号强度的伐值，只有当 DTMF 信号的强度大于这个值时才会这个 DTMF 信号是有效的。	这两个寄存器的设置值都是 0~255，对应得到的伐值范围为-12db ~ -66db
可检测最小 FSK 信号强度一 **可检测最小 FSK 信号强度二**	这是 FSK 信号的阀值，只有当 FSK 信号的强度大于这个值时 PSTN CARD 才能检测到 FSK 信号。	这两个寄存器的设置值都是 0~255，请保持默认值，不要随意修改此参数。

- 【上载】：点击【上载】，获取 PSTN CARD 上的参数配置；
- 【下载】：点击【下载】，弹出确认对话框（如下图），点击【确定】，同步该界面的参数配置到 PSTN CARD，界面无变化；

图 5-28 下载

- 【默认值】：点击【默认值】，弹出确认对话框（下图），点击【确定】，初始化 PSTN CARD 上的参数值，界面无变化。

图 5-29 默认值

- 【保存】：用户在修改参数配置后，从“模板”下拉框中选择一个模板，点击【保存】，弹出提示对话框（下图），点击【确定】，可将当前参数配置保存为一个模板作为备用。系统提供 3 个模板供使用。

图 5-30 保存

- 【载入】：只针对模板使用。当用户需要将参数修改为某一模板的参数时，可以直接选择该模板，点击【载入】，将模板参数载入到当前界面。

确保所有参数项都配置完成后，再点击**【保存】**。否则会出现错误信息提示框。

修改线路/模板参数

- **修改线路参数**

  要修改某一张 PSTN CARD 的某一条线路的参数配置，登录进入该参数配置界面，点击要修改的卡和线路，在参数栏里直接输入新参数值以覆盖原来的旧参数值。各项参数修改完成后，点击**【上载】**。

- **修改模板参数**

  要修改某一模板的参数配置，登录进入该参数配置界面，从模板下拉表中选择要修改的模板，点击【**载入**】，将模板参数载入到当前界面。在参数栏里直接输入新参数值以覆盖原来的旧参数值。各项参数修改完成后，点击【**保存**】，系统弹出提示框（下图），点击【确定】，将新参数值保存到当前模板。

图 5-31 保存

其它

在“配置”页面，点击“其它”，如下图：

图 5-32 其它

允许报告页面刷新：勾选复选框，报告页面（见*图 5-33*）将自动刷新。

刷新间隔（秒）：输入报告页面自动刷新的时间间隔（输入数值为 1 到 20 间的整数）。

串口心跳使能：勾选复选框，开启接警机与接警中心（CMS）间的串口心跳（默认处于开启状态，一般情况请勿修改。如有修改，修改后需重启混合接警机才能应用新的设置）。

串口硬件流控制使能：勾选复选框，启用硬件串口流控制；默认为“不启用”。

CID 报告线号：设置 CID 心跳包线号（不同的线号表示不同接收机的心跳包，默认为 00，设置范围为 00~88）。

串口速率设置：设置混合接警机和上位机之间串口的速率；默认为 1200。

点击【**确定**】保存设置。

除“允许报告页面刷新”和“刷新间隔”两项，其他项的设置均需重启接警机才可生效。

报告

点击“报告”标签页，进入报告页面，如下图：

图 5-33 报告

接收时间	设备类型	IP地址	MAC	发送标志	账号	报告码	描述	组ID	用户类型	防区/用户号
2013-10-09 11:17:06	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	用户布防	00	U	001
2013-10-09 11:15:55	IPM-23	192.168.0.92	001F55140384	0	1234	E401	用户撤防	00	U	001
2013-10-09 11:15:53	IPM-23	192.168.0.92	001F55140384	0	1234	R401	用户布防	00	U	001
2013-10-09 11:14:07	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	用户撤防	00	U	001
2013-10-09 11:13:06	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	用户布防	00	U	001
2013-10-09 11:12:34	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	用户撤防	00	U	001
2013-10-09 11:12:06	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	用户布防	00	U	001
2013-10-09 11:11:46	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	用户撤防	00	U	001
2013-10-09 11:11:03	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	用户布防	00	U	001
2013-10-09 11:10:30	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	用户撤防	00	U	001
2013-10-09 10:40:36	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	用户布防	00	U	001

点击左下角的【**导出**】，以 Excel 格式导出报告内容，请参考第 *40* 页 *导出*章节的相应内容。

查询

点击“查询”标签页，进入查询页面：

图 5-34 当前查询

页面左侧列出两类查询方式，分别为“当前查询”（见*图 5-34*）和“历史查询”（见*图 5-35*）。其中“当前查询”支持查询当前的报警记录；“历史查询”支持查询历史月份备份的报警记录。

注意

- 默认情况下，在“当前查询”页面下进行查询的结果为当前的报警记录。
- “历史查询”是指对备份数据（在每个月的固定时间，系统会自动将当前所有报警转存到备份数据库中）的查询。

“当前查询”包含以下六种查询方式：

- 按账号查询
- 按时间查询
- 按 IP 地址查询
- 按 CID 查询
- 组合查询
- 高级查询

其中，“高级查询”支持输入正确的 sql 查询语句；“组合查询”支持多个查询条件组合在一起查询。

若要查询当前记录，点击“当前查询”，在页面左侧选择一种查询方式，输入相应信息，点击【**查询**】，以报告的形式显示查询结果，如*图 5-37* 所示。

若要查询历史月份备份的报警记录，点击“历史查询”，显示如下页面：

图 5-35 历史查询

用户可查询已备份的记录。选择月份，点击【**确定**】，显示如下图所示页面。

图 5-36 历史查询 – 条件

在页面左侧选择一种查询方式，并在相应的查询页面中输入查询条件，点击【**查询**】，查询结果如下图所示。同时，“报告”页面（见 *36* 页*报告*章节的相应内容）也显示对应月份备份的历史查询结果。若需在报告页面显示当前报告日志，点击页面左侧的“当前查询”。

图 5-37 查询结果

接收时间	设备类型	IP地址	Mac	发送标志	帐号	CID	描述	组ID	用户类型	防区/用户号
2010-11-19 14:27:07	MCM	117.136.8.6	013585642445	1	ABCD	E570	防区旁路	01	C	003
2010-11-19 14:27:06	MCM	117.136.8.6	013585642445	1	ABCD	R570	防区旁路(恢复)	01	C	002
2010-11-19 14:27:00	MCM	117.136.8.6	013585642445	1	ABCD	R570	防区旁路(恢复)	01	C	006
2010-11-19 14:26:59	MCM	117.136.8.6	013585642445	1	ABCD	E570	防区旁路	01	C	002
2010-11-19 14:26:02	MCM	117.136.8.6	013585642445	1	ABCD	R306	主机退出编程	01	C	000
2010-11-19 14:21:20	MCM	117.136.8.6	013585642445	1	ABCD	E306	主机进入编程状态	01	C	000
2010-11-19 13:59:46	MCM	117.136.8.6	013585642445	1	ABCD	R306	主机退出编程	01	C	000
2010-11-19 13:55:02	MCM	117.136.8.6	013585642445	1	ABCD	E306	主机进入编程状态	01	C	000
2010-11-19 10:10:58	MCM	117.136.8.6	013585642445	1	ABCD	E570	防区旁路	01	C	006
2010-11-19 10:10:57	MCM	117.136.8.6	013585642445	1	ABCD	E570	防区旁路	01	C	001
2010-11-18 14:25:44	MCM	117.136.8.6	013585642445	1	ABCD	R306	主机退出编程	01	C	000

点击【**导出**】，以 Excel 格式导出查询结果。

导出

在查询结果页面（见*图 5-37*）的左下角点击【**导出**】，可以将查询结果记录中的最近 5000 条记录以 Excel 格式导出。若查询结果记录总数小于 5000 条，则按时间由近至远的顺序导出所有记录。若导出记录过多，导出时间可能会超过 10 秒。

控制

点击“控制”标签页，进入控制页面：

图 5-38 控制

输入设备账号，点击【**执行**】进入相应主机的控制页面：

- Vista 系列主机见 *41* 页*图 5-39*
- 23XX Super 系列主机见 *42* 页*图 5-40*
- COMPACT-4 系列主机见页
- 23 系列主机见 *44* 页*图 5-41*

注意 确认所要控制的设备已在“设备设置”中添加，见 *17* 页 *4+2 码描述设置*章节的相应内容。

控制（Vista 主机）

通过键盘反控 Vista 主机，如下图：

图 5-39 键盘反控（Vista 主机）

键盘信息显示栏：显示键盘信息。

通过键盘输入指令（输入指令显示在键盘下方的显示栏中）并点击【**发送**】，从而控制主机。点击  可删除输入的内容。具体操作请参考对应主机的操作手册。

注意 若需触发软防区，点击软防区按键，然后点击“**#**”键确认触发。

控制（23XX Super系列主机）

对 23XX Super 系列主机进行快速设定。

快速设定（23XX Super系列主机）

在“控制”页面（见*图 5-38*）输入 23XX Super 系列主机的设备账号后，进入“23 主机快速设定”页面，如下图：

图 5-40 23XX Super 系列主机快速设定

操作区：点击各功能键进行相关操作。各功能键说明如下：

功能键	功能
布防	系统布防。
撤防	系统撤防。
旁路	在弹出的“防区旁路选择”栏中选择要旁路的防区，然后点击【**确定**】旁路防区。
解除旁路	在弹出的“防区旁路选择”栏取消选择所要解除旁路的防区，然后点击【**确定**】解除旁路。
进入编程	进入编程设定界面，见 *46* 页*编程设定*。
清除报警记忆	清除所有防区的报警状态。

防区门铃开	启用防区门铃提示音。
防区门铃关	禁用防区门铃提示音。
组旁路布防	布防系统，设定为组旁路允许的防区都被旁路。
组旁路即时布防	布防系统，设置为组旁路允许的防区都被旁路。同时，延时防区转换成即时防区。
即时布防	布防系统，同时延时防区转换成即时防区。
辅助电源复位	辅助电源复位。
主机复位	主机复位。
电池测试	测试电池，同时“主机状态”栏显示“电池测试中”。测试结束后，显示“电池测试结束”，同时“主机状态”显示测试结果：“电池电压低”或“电池电压正常”。
警号测试	测试警号输出。
报警中心测试	触发主机发送一条测试报告到指定的接警中心。
用户取消	确认防区的报警状态。
关闭主机	关闭主机。
开启主机	开启主机。
启动紧急报警	启动紧急报警，主机向监控中心发送报警报告。

防区状态：显示防区状态。当防区进入报警、旁路、失效或故障状态时，对应防区的指示灯变亮（以防区 1 为例，如  ）。

主机状态：显示主机的状态。

注意 若已更新版本，需刷新页面。

控制（COMPACT-4 系列主机）

COMPACT-4 系列主机的控制操作与 23XX 系列主机相似，参考第 *41* 页*控制（23XX Super 系列主机）*章节。

控制（23 系列主机）

键盘反控

注意 在“键盘反控（23 主机）”页面（见*图 5-41*），若 5 分钟无鼠标点击或键盘按键操作，则自动返回到“控制”页面（见*图 5-38*）。

点击页面左栏的“键盘反控”，可通过键盘反控 23 主机，如下图：

图 5-41 键盘反控（23 主机）

操作区：通过点击键盘区的按键输入指令（请参考对应主机的操作手册）。例如：旁路防区 9，请按顺序点击  ，“9”和“#”。“键盘信息显示栏”显示通过键盘输入的信

息，点击  可删除输入的内容。输入编程设定指令可进入“23 主机编程设定”界面，见*图 5-43*。

注意 若需触发软防区，点击软防区按键，然后点击“#”键确认触发。

防区状态：显示防区状态。当防区进入报警、旁路、失效或故障状态时，对应防区的指示灯变亮（  ）。

主机状态：显示主机的状态。

快速设定（23 系列主机）

注意 Vista 主机不支持快速设定。

点击页面左栏的“23 主机快速设定”（见*图 5-41*），使用快捷键控制主机状态，如下图：

图 5-42 23 主机快速设定

在“操作区”点击防区号，使对应的防区进入旁路状态（待所选防区进入旁路状态后再选择下一个防区）。点击**【布/撤防】**改变主机布防和撤防状态。点击**【编程设定】**进入编程设定界面，见*图 5-43*。

“防区状态”栏显示防区状态。当防区进入报警、旁路、失效或故障状态时，对应防区的指示灯从暗（  ）变亮（  ）。

“主机状态”栏显示主机状态。

注意 在“23 主机快速设定”页面，若 5 分钟无鼠标点击或键盘按键操作，则自动返回到“键盘反控”页面（见*图 5-41*）。

编程设定

进入编程设定界面（见*图 5-43*）后，可进行如下操作：载入模板、保存模板、删除模板、退出编程、下载和上载。

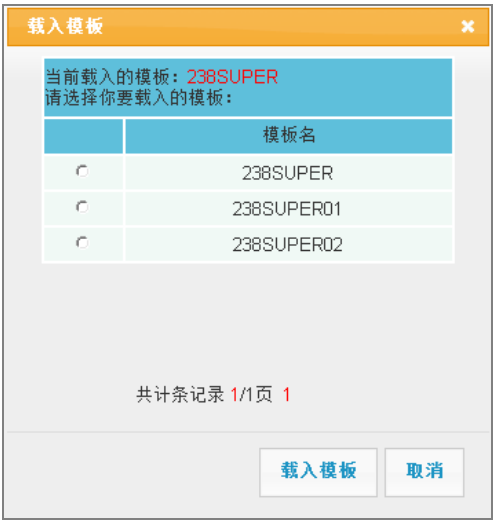
注意 在“23 主机编程设定”页面（见下图），若 5 分钟无上载或下载操作，则自动返回到“键盘反控”页面（见*图 5-41*）。

图 5-43 23 主机编程设定

载入模板

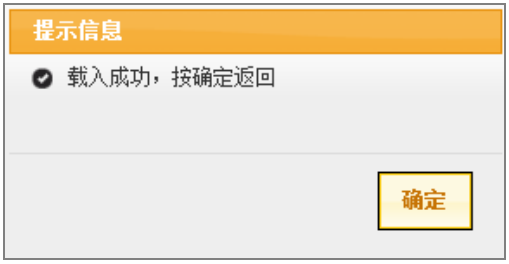
在*图 5-43* 中点击【**载入模板**】，弹出以下对话框显示“当前载入的模板”和可选择的模板：

图 5-44 载入模板



选择所需载入的模板，点击【**载入模板**】，载入成功后，显示如下提示信息。若不载入模板，点击【**关闭**】。

图 5-45 载入模板成功



保存模板

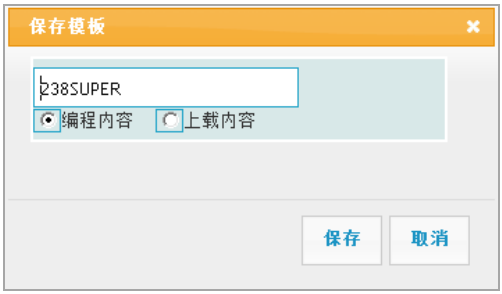
可以分别将“编程内容”栏或“上载内容”栏的数据作为模板保存。

保存编程内容

将“编程内容”栏的数据保存为模板，操作如下。

在*图 5-43* 中修改“编程内容”栏的数据，点击【**保存模板**】，如下图：

图 5-46 保存模板



输入模板名称，选择“编程内容”复选框，并点击【**保存**】。

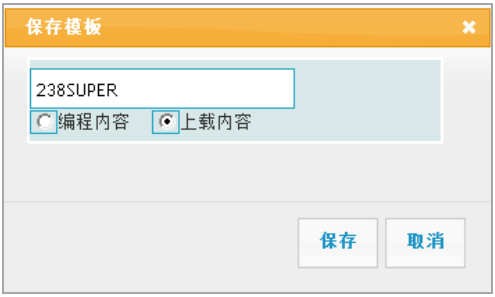
注意 对于 23XX Super 系列主机，编程内容中标记为灰色的编程地址为只读，即在“编程设定”操作中，只能进行上载操作而不能进行下载操作。灰色部分的内容可通过主机键盘进行编辑设定。

保存上载内容

将“上载内容”栏的数据保存为模板，操作如下。

在*图 5-43* 中选择所有编程项，点击【**上载**】，从主机上载数据到接警机（参考 *50* 页*上载*）。上载完成后，点击【**保存模板**】，如下图：

图 5-47 保存模板-上载内容



输入模板名称，选择“上载内容”复选框，并点击【**保存**】。

注意 模板名称只能为英文字母和数字，且不允许有空格。

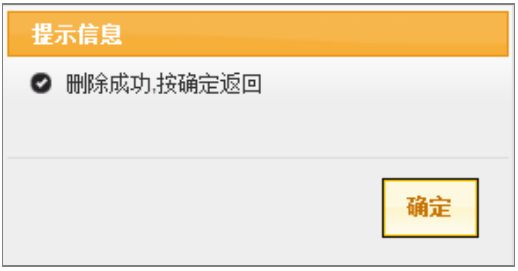
删除模板

在*图 5-43* 中点击【**删除模板**】，显示删除模板界面，如下图：

图 5-48 删除模版

选择所要删除的模板，并点击【**删除模板**】，显示确认对话框，点击【**确定**】，确认删除，删除成功后显示如下提示信息。

图 5-49 删除成功



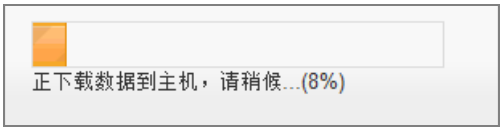
退出编程

在*图 5-43* 中点击【**退出编程**】，返回“键盘反控”界面，见*图 5-41*。

下载

在*图 5-43* 中选择编程项，设置编程内容后，点击【**下载**】，将数据下载到主机，如下图：

图 5-50 下载



下载数据成功后，显示如下页面：

图 5-51 下载成功

若下载数据失败，显示如下页面，对应编程选项的指示灯由灰色变为红色。

图 5-52 下载失败

上载

在*图 5-43* 中选择编程项，点击【**上载**】，从主机上载数据到接警机，如下图：

图 5-53 上载

上传数据完成后，显示提示信息，如下图：

图 5-54 上载完成

用户管理

点击“用户管理”标签页，进入用户管理页面（见*图 5-55*），可添加用户、删除用户、修改密码及修改用户。

添加用户

在页面左栏点击“添加用户”，显示如下页面：

图 5-55 添加用户

- **用户名**：输入用户名（仅支持字母和数字，5-20 个字符）

- **用户类型**：选择用户类型（移动用户、访客、操作员或管理员）
- **用户密码**：输入用户密码（5-20 个字符）
- **确认密码**：再次输入密码

点击【**添加**】完成。

注意

- “移动用户”权限：移动用户可登录安卓市场下载相应的混合接警机应用程序，详情请咨询供应商。
- “访客”权限：报告、查询、用户管理（只能修改自身密码）和设备掉线功能（不能设置“忽略”）。
- “操作员”权限：报告、查询、控制（在“23 主机快速设定”功能下，无“编程设定”操作）、用户管理（只能修改自身密码）、系统日志和掉线设备（不能设置“忽略”）。
- “管理员”权限：报告、查询、控制、配置（不具有导入和导出设备的权限）、用户管理（添加用户时只能添加操作员和访客）、系统日志和掉线设备。
- “超级管理员”权限：具有所有权限。

删除用户

在页面左栏点击“删除用户”，显示如下页面：

图 5-56 删除用户

选择需要删除的用户，点击【**删除**】。

修改密码

在页面左栏点击“修改密码”，显示如下页面：

图 5-57 修改密码

输入当前密码、新密码并确认新密码，点击【**确定**】。修改成功后，提示修改密码成功，如下图：

图 5-58 修改密码成功

修改用户

在页面左栏点击“修改用户”，显示如下页面：

图 5-59 修改用户

点击“修改”，可以修改用户信息，如下图：

图 5-60 修改用户信息

用户名：不可修改

用户类型：从下拉框中选择用户类型

新密码：输入新密码

确认新密码：再次输入新密码

点击【**保存**】保存所修改的信息；点击【**关闭**】退出。

修改关联

在页面左栏点击“修改关联”，显示如下页面：

图 5-61 修改关联

点击对应用户名栏的“修改关联”，查看和修改该用户的设备关联信息。该用户具有控制已选择管理设备的权限（见 *40* 页*控制*）。如下图：

图 5-62 关联设备

选择关联设备，或者取消选择关联的设备，点击【**保存**】。

注意	只有超级管理员能修改关联设备，管理员只能查看关联设备，操作员和访客不能访问此界面。

系统日志

点击“系统日志”标签页，进入系统日志页面（见*图 5-63*），可查看所有日志及进行日志查询。

所有日志

在页面左栏点击“所有日志”，可查看所有日志，如下图：

图 5-63 所有日志

点击【**导出**】，以 Excel 格式导出所有日志。

日志查询

在页面左栏点击“日志查询”，可按照用户名查询日志，如下图：

图 5-64 日志查询

输入用户名，然后点击【**查询**】，显示日志查询结果，如下图：

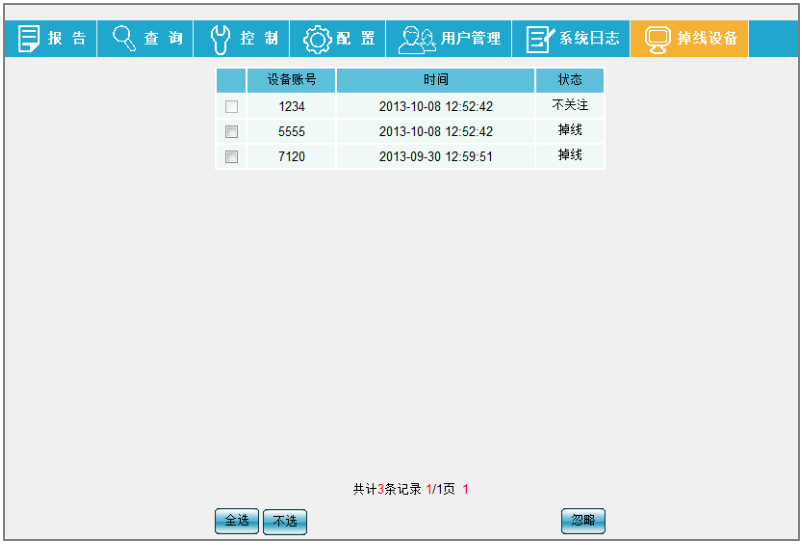
图 5-65 日志查询结果

点击【**导出**】，以 Excel 格式导出日志。

掉线设备

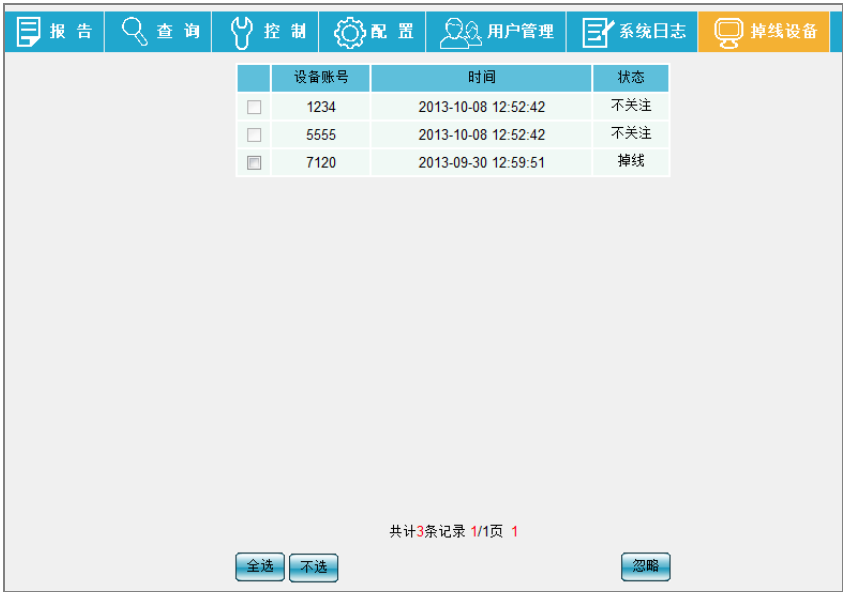
点击“掉线设备”标签页，显示所有已添加设备的掉线信息（“添加设备”请参考 *17* 页 *4+2 码描述设置*章节的相应内容），如下图（未添加的设备不会在此显示）。当设备重新连接时，掉线设备信息自动删除。建议将长期不使用的设备删除（见 *22* 页*删除设备*章节的相应内容）。

图 5-66 掉线设备



若选择不关注某设备的掉线信息，选择对应设备，点击【**忽略**】，则对应设备的状态变为“不关注”，如下图：

图 5-67 忽略


报 告
查 询
控 制
配 置
用户管理
系统日志
掉线设备
设备账号
时间
状态
1234
2013-10-08 12:52:42
不关注
5555
2013-10-08 12:52:42
不关注
7120
2013-09-30 12:59:51
掉线
共计3条记录 1/1页 1
全选
不选
忽略

6 接警平台网络结构及路由器配置

连接在广域网的报警设备的报警信息通过路由器转发给处于局域网的混合接警机，因此需要对路由器进行一定配置以保证混合接警机的安全有效接警。按照以下步骤设置路由器：(不同路由器的配置页面不一样，以下步骤仅供参考)

1. 在浏览器地址栏中输入http://192.168.0.1，打开路由器配置界面。

2. 关闭 DHCP 功能：DHCP 自动分配 IP 地址，可能造成混合接警机 IP 地址不固定，从而无法接警。

   在“DHCP 服务器”配置页面下（如下图所示），去掉“DHCP 服务器”的“启用”复选框前的勾，并点击【保存】：

图 6-1 DHCP 配置

3. 设置虚拟服务器以便接受广域网报警，需要设置的端口有：TCP-7838 和 UDP-7839，启用这些端口以便混合接警机能有效的收到广域网的报警。

   在“虚拟服务器”配置页面下，将 TCP-7838 和 UDP-7839 端口添加至启用端口列表中，如下图所示：

图 6-2 虚拟服务器配置

4. 按照以下 4 点对路由器进行安全设置：

- 忽略来自 WAN 口的 Ping 包，避免恶意侦测（见第 *62* 页的*图 6-3*）。
- 启用防网络攻击，防止 DOS 攻击（见第 *63* 页的*图 6-4*）。
- 启用过滤功能，仅允许通过 TCP-7838 端口的数据包，防止恶意入侵（见 *63* 页的*图 6-5*）。
- 将路由器密码设置为安全性较高的密码（位数不少于 15，由字母+数字+特殊符号组成）。

忽略来自 WAN 口的 Ping 包 — 在“WAN 口 Ping”页面中选择“忽略”，并点击**【保存】**：

图 6-3 WAN 口 Ping

启用防网络攻击 — 在“防网络攻击支持”页面中选择“启用”，并点击**【保存】**：

图 6-4 防网络攻击

过滤端口配置 — 在“客户端过滤”页面下，点击【**添加**】，将 TCP-7838 端口添加至允许数据包通过的端口列表中，并点击【**保存**】：

图 6-5 客户端过滤

7 附录安装 PSTN CARD

按照以下步骤在混合接警机上安装 PSTN CARD：

1. 关闭混合接警机电源，打开机箱；
2. 根据 PSTN CARD 的数量，分别按以下步骤安装：
   - 一个 PSTN CARD

     将 PTSN CARD 按照卡槽对应位置插到 PCI 插槽的任一插槽中。
   - 两个 PSTN CARD
     - 分别对两个 PSTN CARD 进行拨码开关设置（关于拨码开关的介绍，参考*《PSTN CARD 安装说明》*），并确保拨码值不相同；
     - 分别将这两个卡按照卡槽 PCI 插槽 中。注意， PCI 插槽按后面板示意图（*图 2-2* 后面板示意图从左到右顺序，确保拨码值小的 PSTN CARD 安装在拨码值大的 PSTN CARD 左边的插槽上。
   - 装好挡板，合上机箱，拧紧螺丝。
3. 把 USB 线一端插到 PSTN CARD 上，一端插到混合接警机的 USB 接口上（关于连接 USB 线的介绍，参考*《PSTN CARD 安装说明》*）。

中国 RoHS

根据信息产业部等部委颁布的《电子信息产品污染控制管理办法》及相关标准的要求，混合接警机的相关信息如下：

1. 产品的环保使用期限为 10 年，保证该环保使用期限的安装及使用注意事项见产品使用手册；
2. 产品中有毒有害物质或元素的名称及含量见下表：

产品中有毒有害物质或元素的名称及含量

部件名称	有毒有害物质或元素					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
箱体组件	X	O	O	O	O	O
印刷电路板组件	X	O	X	O	O	O
线缆	X	O	O	O	O	O
电源模块	X	O	O	O	O	O
LED 显示器	X	O	O	O	O	O

O：表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

X：表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

Packing List

Check if the packing contents match the packing list on receiving the products. The packing list is as below:

Part	Quantity
Doppio	1
User Guide	1
Serial Port Cable	2
Power Adapter Cable	1

Contact your local retailer if anything is missing in your package.

1 Introduction

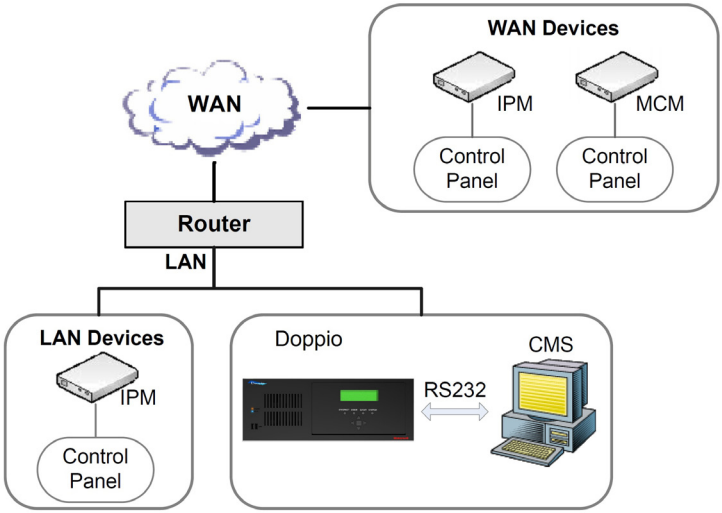
The Doppio receives alarms from IP module through Ethernet and transmits them to the CMS (Central Monitoring System). The Doppio can be connected to the alarm devices of various models, provide reliable communication based on TCP protocol, send received alarms to CMS via RS232 serial port cable, and stores alarms in its database. Alarms can be searched with the keys and display on the front panel. User can also log in to the Doppio System to search, manage and back up the received alarms.

Features:

- Support remote arm and disarm by smart phones.
- Support PSTN and IP alarm.
- Support CID, 4+2 and CFSK format alarm.
- Support all Honeywell network devices and panels (IPM series, MCM series and COMPACT-4).
- Supprot network alarm devices online management(3000 alarm devices by default, up to 10000 alarm devices).
- System configuration, database operations, user management, alarm search, log search and device management are available through remote login to the Doppio system.
- Display and operating buttons for searching alarms
- LED indicators for system operations
- RS232 serial-port output based on the 685 protocol
- The panel can be controlled through the internet; remote keyboard control and program settings are available.
- At 00:00 of the first day of each month, the Doppio automatically backs up all the alarms stored in the database.

The application diagram of Doppio is as follows:

Figure 1-1 Application Diagram



Notes：IP Module; MCM: Mobile Communication Module；CMS: Central Monitoring System

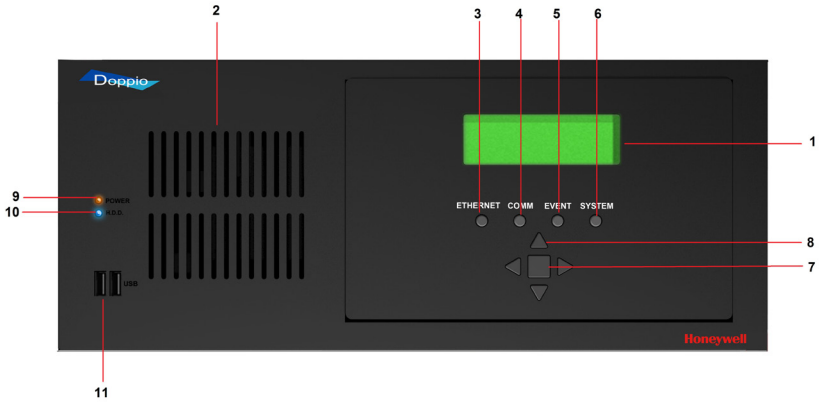
Specifications:

Parameter	Value
Power Supply	100-240 VAC
Dimension	175 mm（H）×430 mm（W）×434 mm（D）
Weight	13.20 kg
Display	4 lines, 20 characters VFD
Mounting	Rack Mounting
Operating Temperature	0°C～+50°C

2 Interfaces and Wiring

Front Panel

Figure 2-1 Front Panel



No.	Name	No.	Name
1	VFD Screen	7	ENTER/MENU Indicator
2	Air Outlet	8	Direction Keys
3	ETHERNET Indicator	9	Power Indicator
4	COMM Indicator	10	HDD Indicator
5	SYSTEM Indicator	11	USB
6	EVENT Indicator		

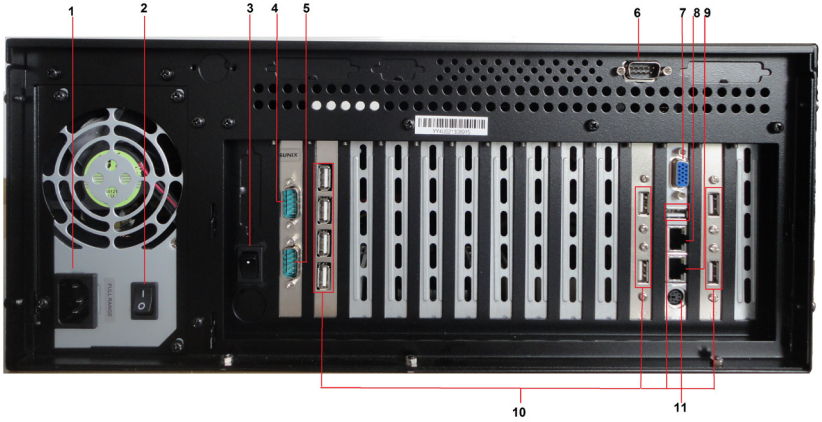
Refer to the following table for description of LED indicators:

LED	Description

ETHERNET	The indicator turns green when the device is connected to Doppio and turns off when no device is connected to Doppio.
COMM	The indicator turns green when Doppio is connected to the CMS and turns red when Doppio is not connected to the CMS.
EVENT	The indicator turns green and flashes when reporting alarms.
SYSTEM	The indicator turns red when the system is in abnormal state (the front panel and motherboard is not connected) and turns green when the system is in normal state.

Rear Panel

Figure 2-2 Rear Panel



No.	Name	No.	Name
1	Power Supply (220 VAC)	7	VGA Interface
2	Power Switch	8	Gigabit Ethernet Port 2
3	ON/OFF Switch	9	Gigabit Ethernet Port 1

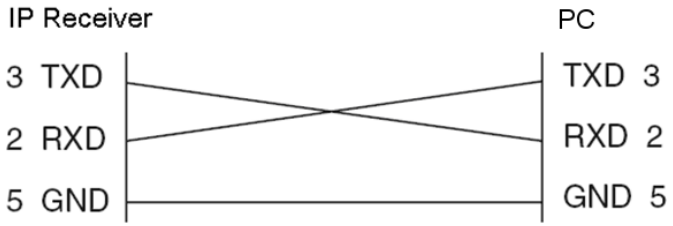
4	COM3 Serial Port	10	USB
5	COM4 Serial Port	11	PS/2
6	COM2 Serial Port		

Before connecting the Doppio and CMS, Doppio customized CID (be reported with the Device No.FFFE) should be added in the CMS software. Refer to the following table for the CID to be added.

CID	Description
E001	Frequent connection
R001	Frequent connection recovery
E002	Port scan
R002	Port scan recovery
E901	Communication error of the front panel
R901	Communication recovery of the front panel
E903	Network port disconnection
R903	Network port disconnection recovery

CMS can be connected to Doppio via COM2 port. Refer to the following illustration for making the 9-pin female to female serial cable:

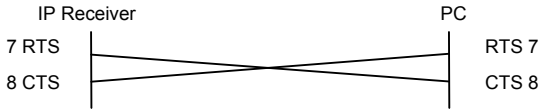
Figure 2-3 9-pin serial cable



Note

Instructions on how to use the serial cable:

- The standard serial cable come with the Doppio is recommended.
- On condition that other serial cable should be used to connect devices, the cable should be shorter than 3m.
- Serial port isolators should be installed if serial cable of longer than 3m is used.
- To enable the serial port hardware flow control function, refer to the following illustration for connecting the 9-pin serial cable:



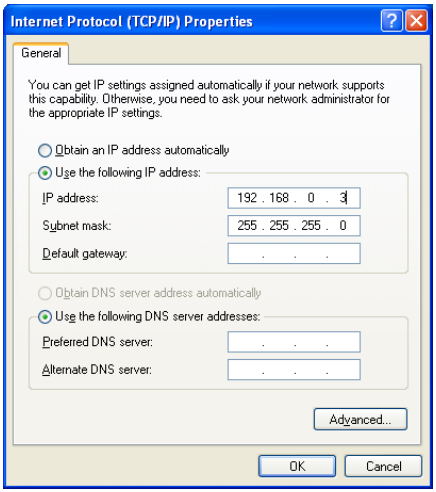
CMS can be connected to the COM3 port on Doppio with a crossover serial port cable so as to control the alarm devices reversely. CMS software is based on the Bell103 protocol to perform the reverse control (operation steps differ according to different CMS software provided by the third party).

3 System Configuration

Doppio was assigned two factory default IP addresses, 192.168.0.2 and 192.168.1.2 respectively, for the two gigabit Ethernet ports shown in Figure 2-2 on page 72. You can assign different IP addresses for the two ports. Follow these steps to assign the address:

1. Modify the “Internet Protocol (TCP/IP)” properties of computer that would be connected to the Doppio (see the following figure).

Figure 3-1 Internet Protocol (TCP/IP) Properties



Select “Use the following IP address” and specify an IP address in the same subnet as the factory default IP address (for example, 192.168.0.3 or 192.168.1.3). Click **OK** to save the application.

2. Connect the computer with the Doppio via the gigabit Ethernet port.

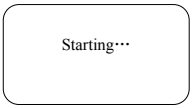
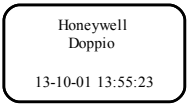
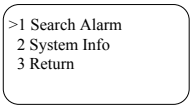
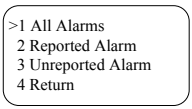
Note If the IP address set in step 1 is 192.168.0.X, connect the computer to gigabit Ethernet port 1; if the IP address set in step 1 is 192.168.1.X, connect the computer to gigabit Ethernet port 2.

---

3. Log in to “Doppio System” to change the network configuration (if Doppio is connected to gigabit Ethernet port 1, enter http://192.168.0.2 in the browser to log in to the system; if it is connected to Ethernet port 2, enter http://192.168.1.2 in the browser to log in to the system). For detailed steps, see *Network* on page *81*.

4 Operations

Refer to the following table for the operations on the front panel (see *Figure 2-1* on page *71* for the location of the ►, ◄, ▲, ▼, and **ENTER** keys on the front panel):

On Screen Display	Description
 *Figure 1*	Power up and turn on the switch on the rear panel of Doppio (No.12 in *Figure 2-2* on page *72*). The LED indicators on the front panel will turn on and “Starting…” is displayed on the screen.
 *Figure 2*	When the system starts up normally, the screen displays the model name, date and time.
 *Figure 3*	Press ► or **ENTER** to enter the menu shown in the left figure. Press ▲ and ▼ to go through menu items; Press ► or **ENTER** to select the menu item; Press ◄ or select “Return” to return to idle-mode display (see *Figure 2*).
 *Figure 4*	**Search alarm** In *Figure 3*, select “Search Alarm” and the left figure is displayed. There are three alarm types: • All Alarms • Reported Alarm • Unreported Alarm Unreported Alarm: If the Doppio is not connected with CMS, all the alarms are stored in the database of the Doppio as unreported alarms. Press ► or **ENTER** to select the menu item; Press ◄ or select “Return” to go to the previous menu.

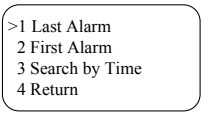


Figure 5

View mode

In *Figure 4*, select an option and the left figure is displayed.

There are three view modes for each alarm type:

- Last Alarm
- First Alarm
- Search by Time

Press ► or **ENTER** to select the menu item;

Press ◄ or select "Return" to go to the previous menu.

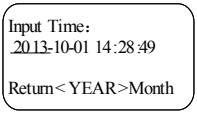


Figure 6

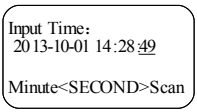


Figure 7

Search by time

In *Figure 5*, select "Search by Time" and *Figure 6* is displayed.

It displays the current date and time.

Press ► and ◄ to switch between the date and time options you want to modify;

Press ▲ and ▼ to adjust the date and time.

- Move cursor to the year option ("Return" is also displayed on the screen; see *Figure 6*), and press ◄ to go to the previous menu.
- Move the cursor to the second option ("Scan" is also displayed on the screen; see *Figure 7*), and press ► to start searching alarms by time. The result displays the previous alarm occurred before the specified time. If no alarm occurred before the specified time, it displays the next alarm occurred after the specified time.

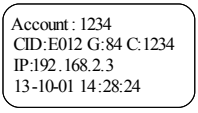


Figure 8

Display alarm

After selecting any of the view modes (last alarm, first alarm, and search by time), you can get the retrieved result which includes:

- Account (a 4-digit account or the last four digits of a 6-digit account)
- CID (Contact ID), G (Group ID), and C(Zone number)/U(User number)(depending on the reported alarm)
- IP – the IP address of the device which reports the alarm (if unavailable, it displays "0.0.0.0")
- Date and time when reporting the alarm

Press ◄ or ▲ to view the previous alarm;

Press ▼ or ► to view the next alarm;

Press **ENTER** to return to the alarm-selection menu shown in *Figure 5*.

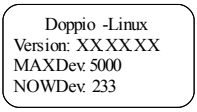


Figure 9

View system information

In *Figure 3*, select "System Info" and *Figure 9* is displayed. It includes:

- Software version (Version)
- Maximum number of devices (MAXDev) that can be connected

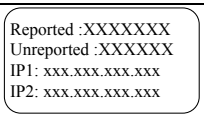


Figure 10

- Number of the currently connected devices (NOWDev)
- Number of reported alarms (Reported)
- Number of unreported alarms (Unreported)
- Two IP addresses (IP1 and IP2) of the two network ports on Doppio for connecting IP devices

Press ▲ and ▼ to turn the page up and down;
Press ►, ◄ or **ENTER** to return to the menu shown in *Figure 3*.

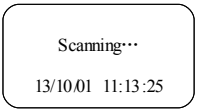


Figure 11

Abnormal system status

The screen displays “Scanning” after a while (in 1 minute), when the front panel and motherboard are not linked by the serial port cable.

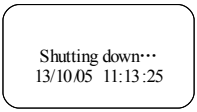


Figure 12

Shut down

Turn off the ON/OFF switch on the rear panel (No.12 in *Figure 2-2* on page *72*). It takes about 15 seconds to terminate the programs before displaying “Shutting down…”.

Note: Do not press the power switch (No.13 in *Figure 2-2* on page *72*) to shut down the Doppio.

Note

- If there is no key entry within 30 seconds, the screen automatically returns to the idle-mode display (see *Figure 2*).
- The system checks the front-panel screen at 00:00:00 every day; the screen stays on for 2 seconds, keeps off for 2 seconds, and then returns to the idle-mode mode.

5 Network Operations

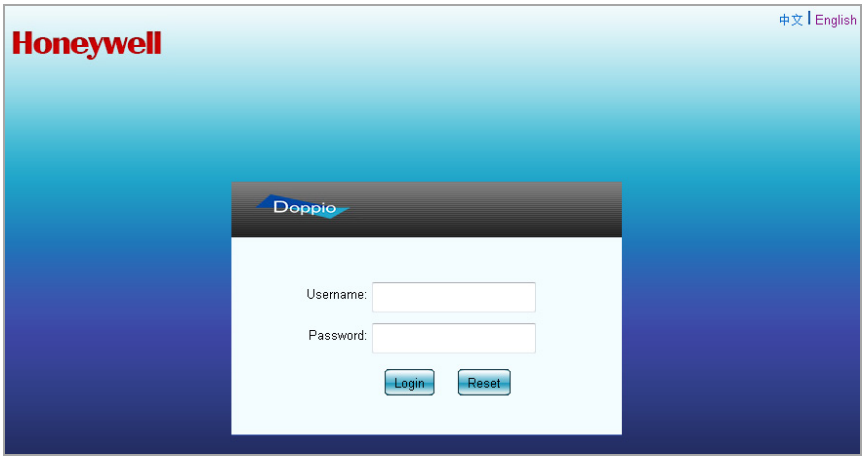
Login

When the computer and the Doppio are on the same subnet, input the IP address (refer to *Figure 10* on page *76* for IP address) of the Doppio in the address bar of the browser to log in to the Doppio system.

Note

- If the computer is connected to the internet and the Doppio is connected to the intranet, you must configure the router first according to the chapter "*Network Structure and Configuration on Router*" on page *129*, and then input the IP address of the router's WAN port in the browser to log in to the Doppio System (support Internet Explorer 6.0 and Internet Explorer 8.0).
- If display glitch appears, check the video card.

Figure 5-1 Login

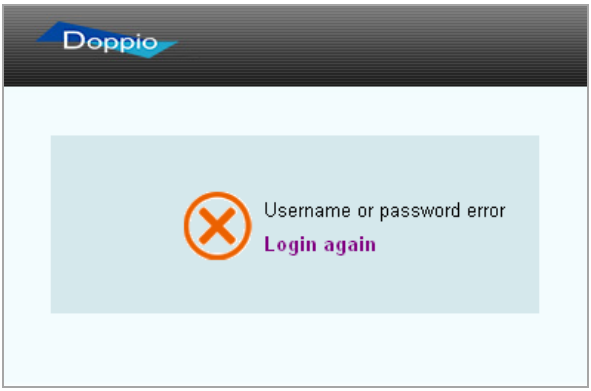


To enter the English interface, click "English" on the upper right corner. To enter the Chinese interface, click "中文".

Input "Username" and "Password" (default username: admin, default password: admin). Then click **Login** to enter the Doppio system (see *Figure 5-3* on page *81*) or click **Reset** to input again.

If the username or password is incorrect, the following window is displayed.

Figure 5-2 Username or Password Error



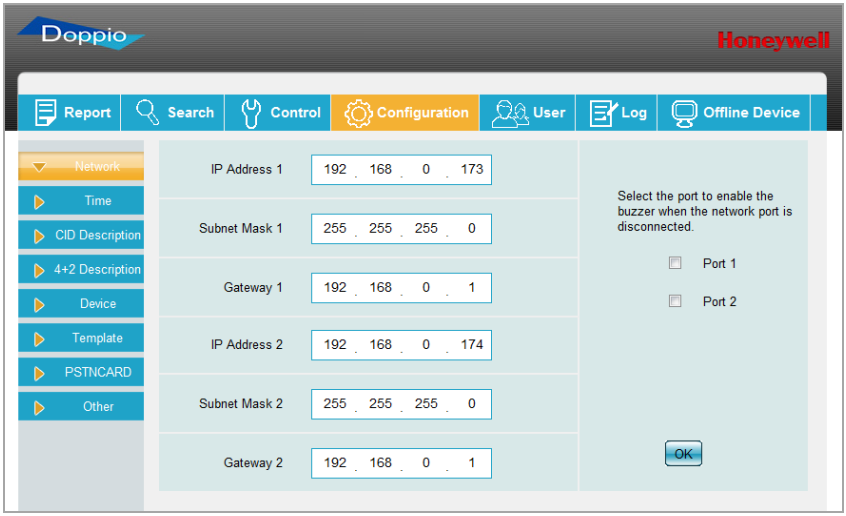
Click “Login again” to return to the login window (see *Figure 5-1* on page *79*).

Configuration

The following window will be displayed after successful login.

There are seven tabs: **Report**, **Search**, **Control**, **Configuration**, **User**, **Log** and **Offline Device**. User type (super administrator, administrator, operator or visitor) and device status (Online or Offline) are shown on the upper right corner. Click  to exit the system and return to the Login window (see *Figure 5-1*on page *79*).

Figure 5-3 Configuration



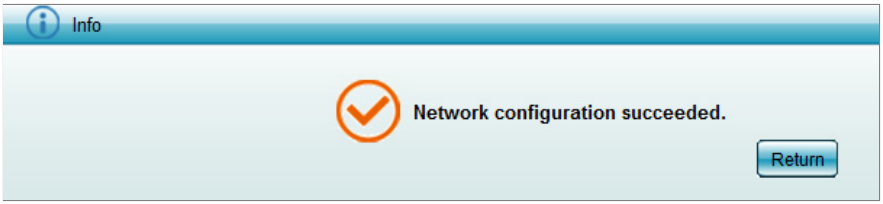
Network

On the **Configuration** tab, click “Network” to configure network (see *Figure 5-3* on page *81*). The Doppio must be assigned a unique IP address which hasn’t been used by other devices after system configuration (see *System Configuration* on page *75*). One Doppio can be assigned two IP addresses. Please refer to the following paragraph for network configuration and buzzer setting:

- Assign a unique IP address for Gigabit Ethernet port 1 in “IP Address 1”.
- Assign a unique IP address for Gigabit Ethernet port 2 in “IP Address 2”.
- Select the port to enable the buzzer (if the port is selected, the buzzer will beep when the corresponding port is disconnected.).

Click **OK** and the following window is displayed.

Figure 5-4 Network Configuration Succeeded

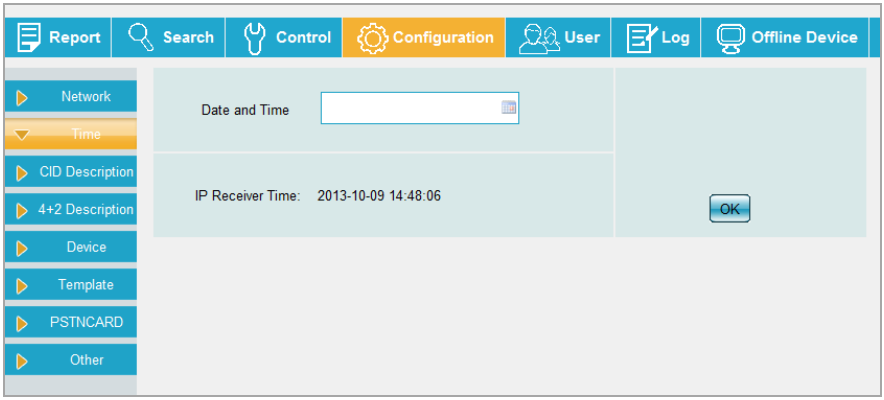


Note	IP Address 1 is for Gigabit Ethernet 1 and IP Address 2 is for Gigabit Ethernet 2. The two can't be reversed.

Time

On the **Configuration** tab (see *Figure 5-3* on page *81*), click "Time" to set the date and time for the Doppio system (see the following figure).

Figure 5-5 Time Setting



Date and Time: Select the date and time by clicking the input box.

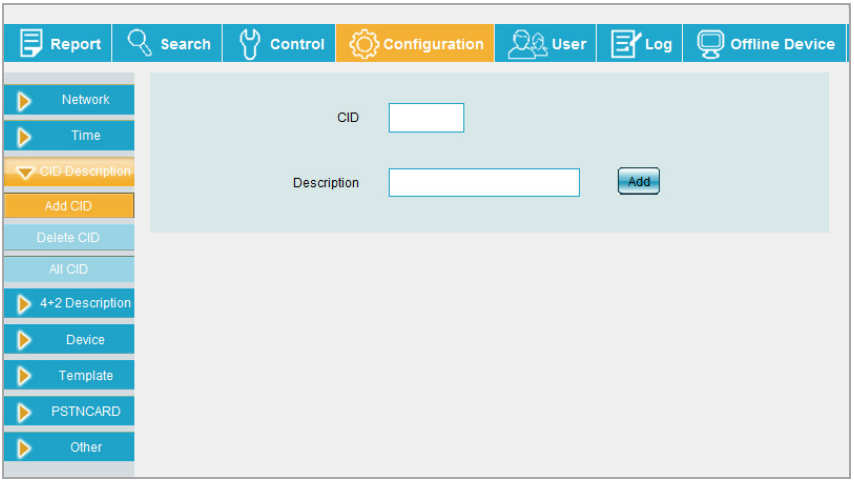
Click **OK** to confirm.

Note	It is recommended that the **Date and time** is modified for the first login. Data of the system will be affected if time is modified later.

CID Description

On the **Configuration** tab (see *Figure 5-3* on page *81*), click "CID Description" to add CID, delete CID, check CID information and modify CID description (see the following figure).

Figure 5-6 CID Description



Add CID

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **CID Description→Add CID** and *Figure 5-6* is displayed.

Input “CID” and “Description”, and then click **Add** to add a new CID.

In the Chinese interface, the “Description” of the newly added CID is empty. Enter the Chinese interface and then add the description of the CID in the Chinese interface by selecting **CID Description→All CID→Details** (see *Figure 5-9*).

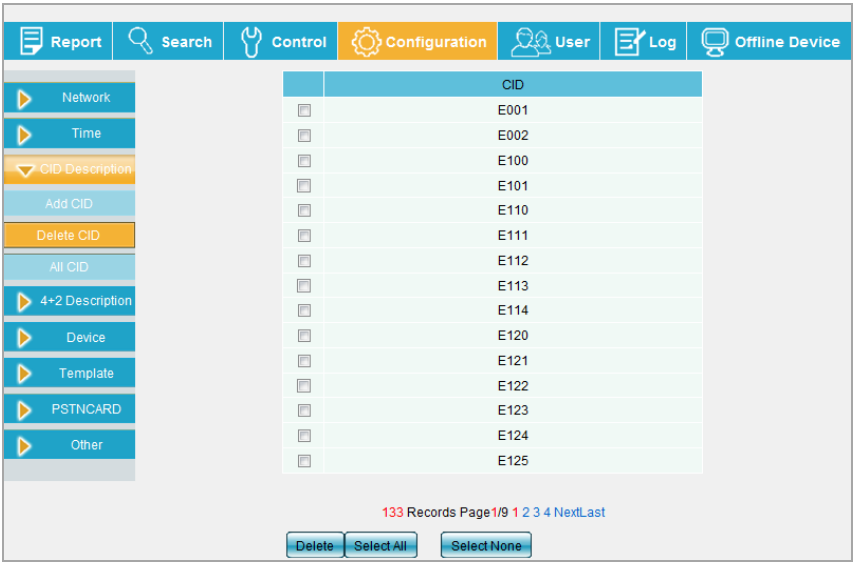
Note

- “Description” content can’t exceed 40 characters.
- One word can’t exceed 18 characters.

Delete CID

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **CID Description→Delete CID** and the following window is displayed.

Figure 5-7 Delete CID



Select the CID to be deleted and click **Delete**.

All CID

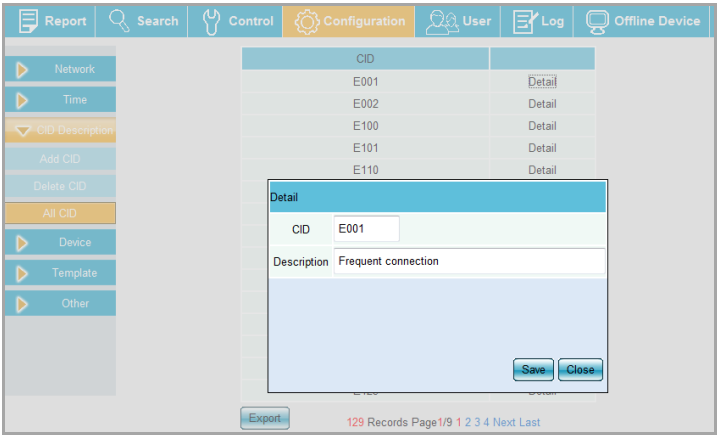
On the **Configuration** tab (see *Figure 5-3* on page *81*), select **CID Description→All CID** and the following window is displayed.

Figure 5-8 All CID

Click **Export** to export all the CID information to Excel file.

Click “Details” to view or modify the CID description (see the following figure).

Figure 5-9 CID Details



To modify the CID description, enter a description and click **Save**.

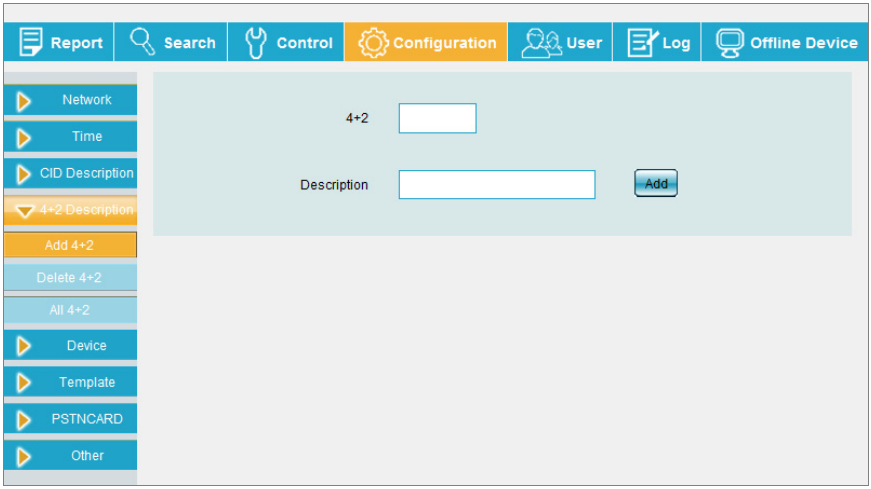
4+2 Description

On the **Configuration** tab (see *Figure 5-3* on page *81*), click “4+2 Description” to add 4+2, delete 4+2, check 4+2 information and modify 4+2 description (see the following figure).

Add 4+2

On the **Configuration** tab (see *Figure 5-3*on page *81*), select **4+2 Description→Add 4+2** and the following figure is displayed.

Figure 5-10 Add 4+2



Input “4+2” and “Description”, and then click **Add** to add a new 4+2.

In the Chinese interface, the “Description” of the newly added 4+2 is empty. Enter the Chinese interface and then add the description of the CID in the Chinese interface by selecting **4+2 Description→All 4+2→Details** (see *Figure 5-13* 4+2 Details).

- “Description” content can’t exceed 40 characters.
- One word can’t exceed 18 characters.

Delete 4+2

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **4+2 Description→Delete 4+2** and the following window is displayed.

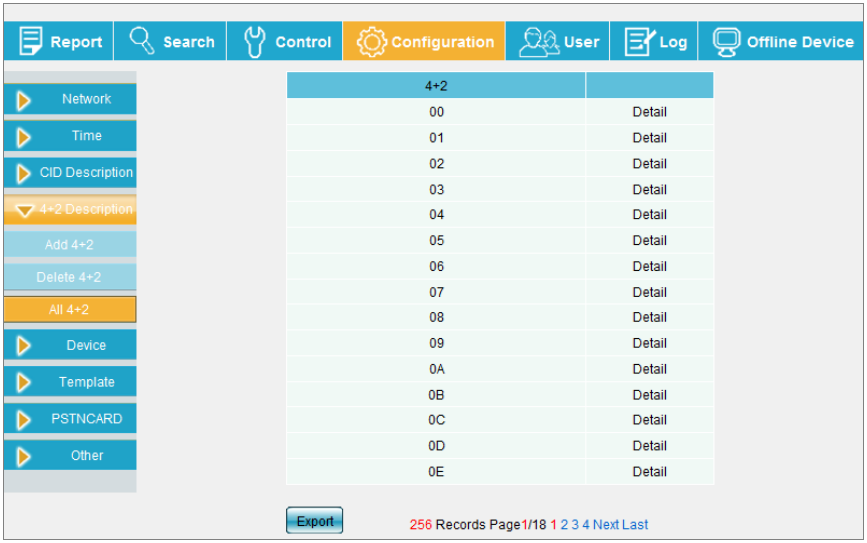
Figure 5-11 Delete 4+2

Select the 4+2 to be deleted and click **Delete**.

All 4+2

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **4+2 Description→All 4+2** and the following window is displayed.

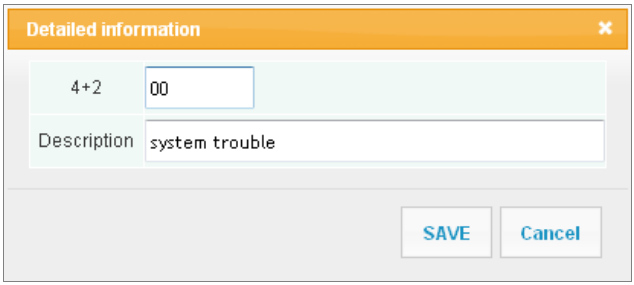
Figure 5-12 All 4+2



Click **Export** to export all the CID information to Excel file.

Click “Details” to view or modify the 4+2 description (see the following figure).

Figure 5-13 4+2 Details



To modify the 4+2 description, enter a description and click **Save**.

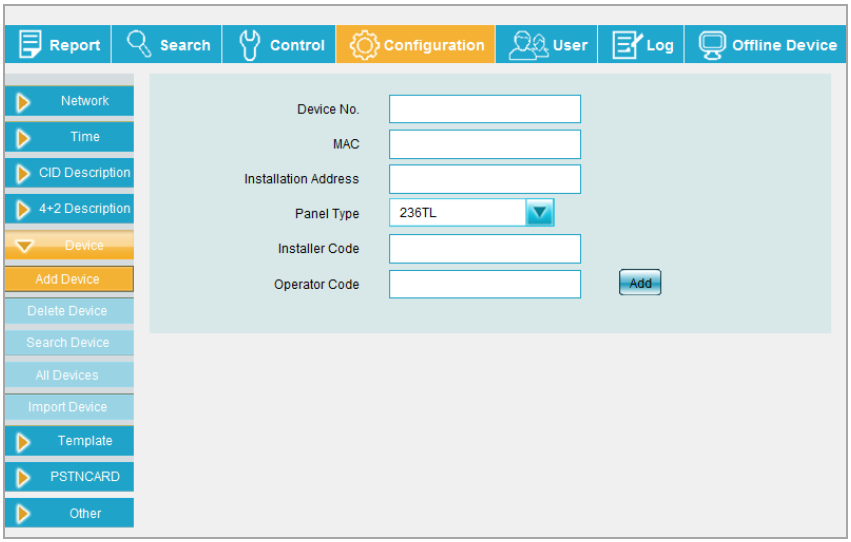
Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), click “Device” to add, delete, search and view devices (see *Figure 5-10* on page *89*).

Add Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Device→Add Device** and the following window is displayed.

Figure 5-14 Add Device



Enter “Device No.” (device no. can only contain 4 or 6 characters including number 0 to 9 or/and letter A to F), “MAC”, “Installation Address”, “Panel Type” (select from the drop-down list), “Installer Code”, and “Operator Code”. Then click **Add** to add a device.

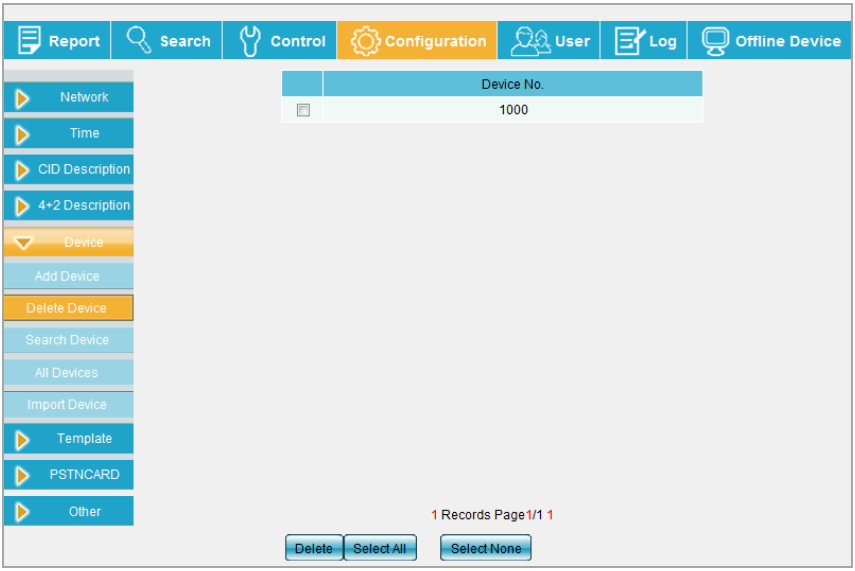
Note

- For MCM module, the “Device No.” and “MAC” entered must be the same as the actual device number and MAC of the module.
- For IPM-23 Super series module, the “Device No.” and “MAC” entered must be the same as the actual device number and MAC of the module.
- For IPM-23 and IPM-Vista module, the “MAC” entered must be the same as the actual MAC of the module. The “Device No.” can be user-defined.

Delete Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Device→Delete Device** and the following window is displayed.

Figure 5-15 Delete Device



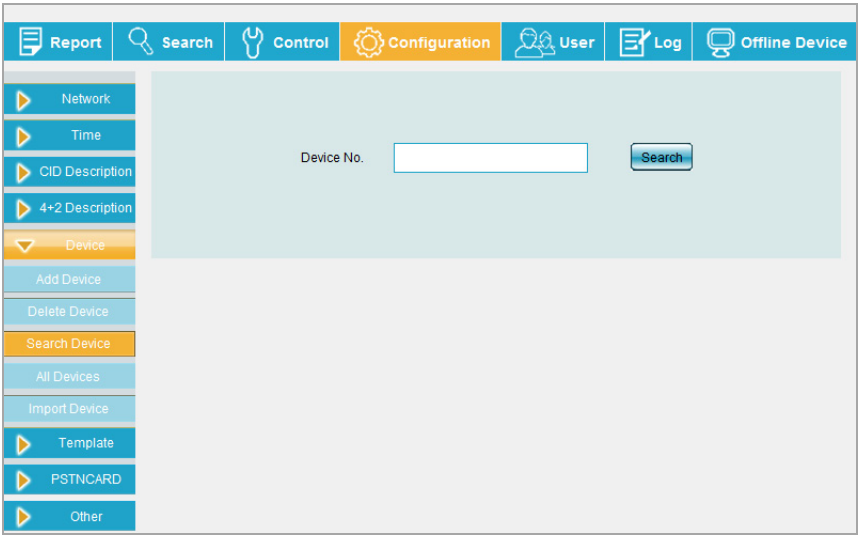
Select the device to be deleted and click **Delete**.

Note	It is recommended to delete the device that hasn't been used for a long time.

Search Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Device→Search Device** and the following window is displayed.

Figure 5-16 Search Device

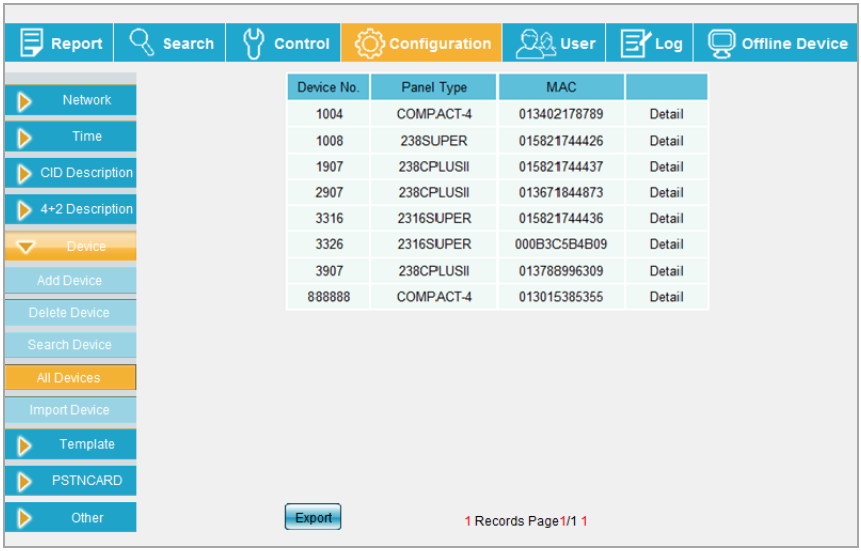


Input “Device No.” and click **Search**. The device will be shown on the page.

All Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Device→All Device** and the following window is displayed.

Figure 5-17 All Device

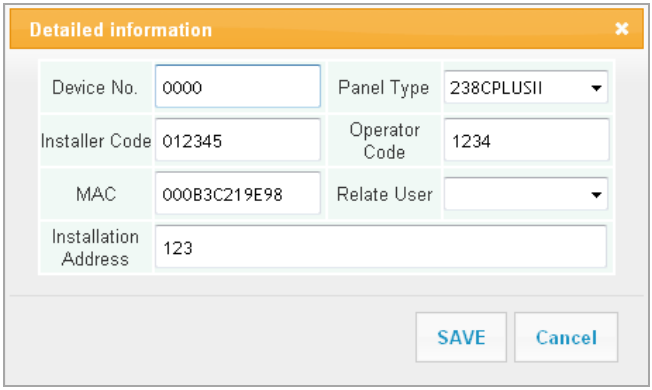


Click **Export** to export all the device information to Excel file. The exported file is for backup only. Do not modify the file.

Note Only “Super Administrator” can export the device information. Other users can not view the **Export** button and cannot export device information.

Click “Detail” to show detailed information of the corresponding device (see the following figure).

Figure 5-18 Device Detail

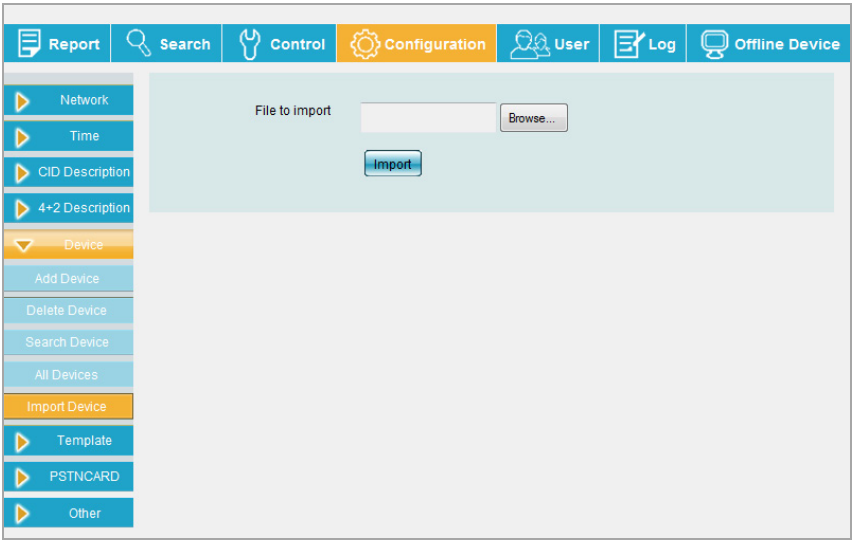


Input “Panel Type”, “Installer Code”, “Operator Code”, “Installation Address” and click **Save**. “Device No.”, “MAC” and “Relate User”(view all the related users from the drop-down list) can’t be modified.

Import Device

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Device→Import Device** and the following window is displayed.

Figure 5-19 Import Device



Perform the following steps to import device:

1. Export all the device information (see *Figure 5-3* on page *91*) and save the file (skip this step if the device information has been exported). Do not modify the exported file. Otherwise, it cannot be imported.
2. Click **Browse** to locate the file saved in step 1 and click **Import**.

Restart the Doppio after successfully importing the device.

Note	Only “Super Administrator” can import device. Other users have no access to this page and can not import device.

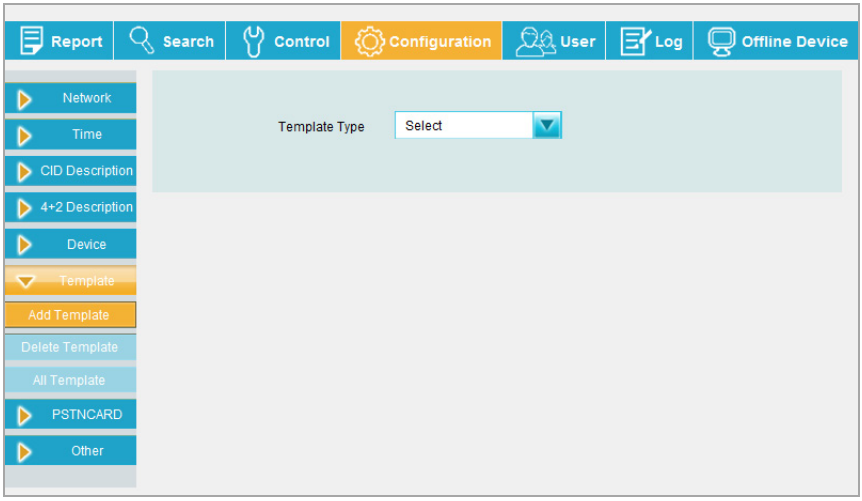
Template

On the **Configuration** tab (see *Figure 5-3* on page *81*), click “Template” to add template, delete template, view template information and modify template.

Add Template

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Template→Add Template** and the following window is displayed.

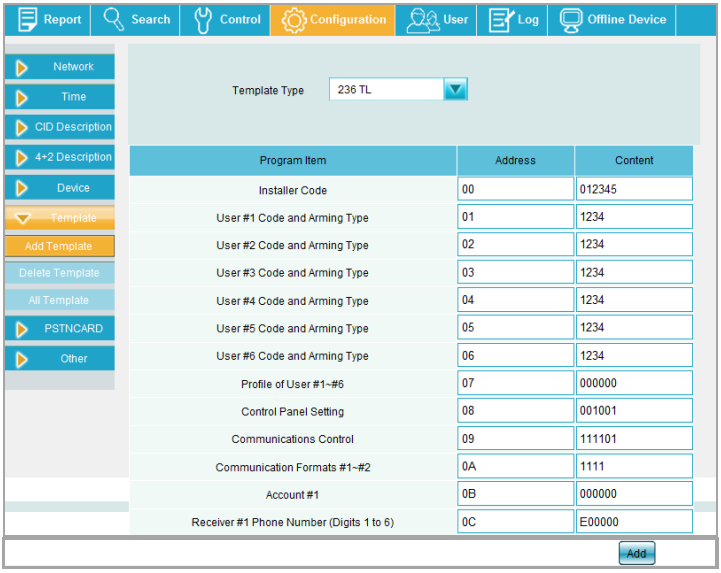
Figure 5-20 Add Template



Template Type: Select the template type of a certain panel from the drop-down list.

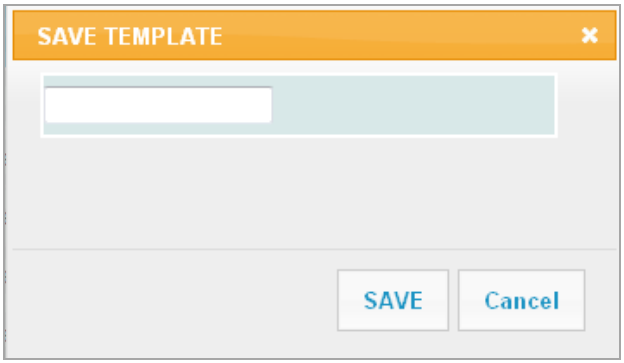
The detailed information of the corresponding template is displayed (see the following figure).

Figure 5-21 Template Type



In “Content” column, modify the content and click **Add** to add a new template (see the following figure).

Figure 5-22 Template Name



Input the template name and click **Save**. The new template will show in *All Template*.

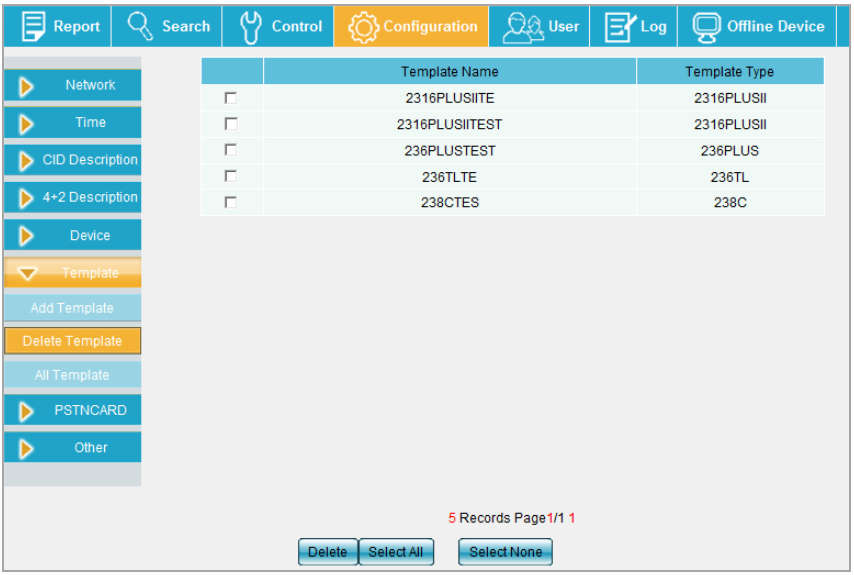
Note

- Template is not available for Vista series control panels.
- The template name contains alphabetical characters and numbers. No space is allowed.

Delete Template

On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Template→Delete Template** and the following window is displayed.

Figure 5-23 Delete Template

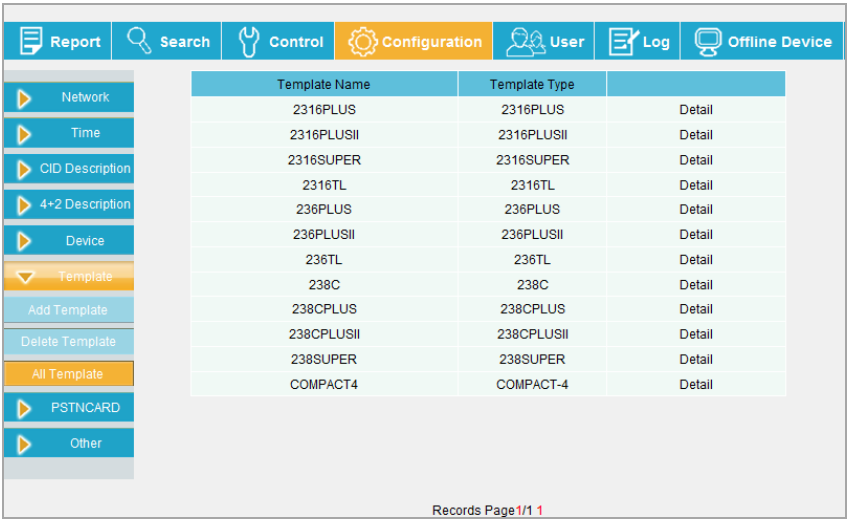


Select the template to be deleted and click **Delete**.

All Template

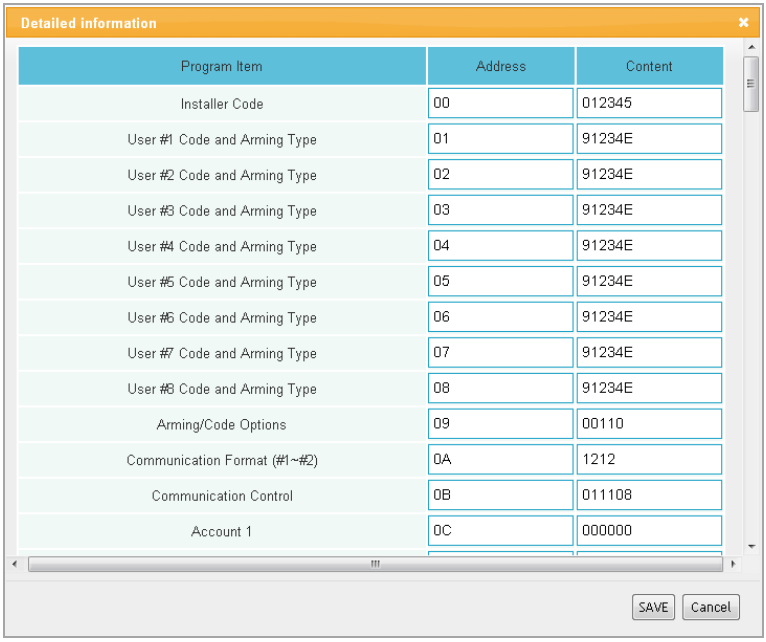
On the **Configuration** tab (see *Figure 5-3* on page *81*), select **Template→All Template** and the following window is displayed.

Figure 5-24 All Template



Click “Detail” to show detailed information of the corresponding template (see the following figure).

Figure 5-25 Template Details



In “Program Content” column, modify the content and click **Save**.

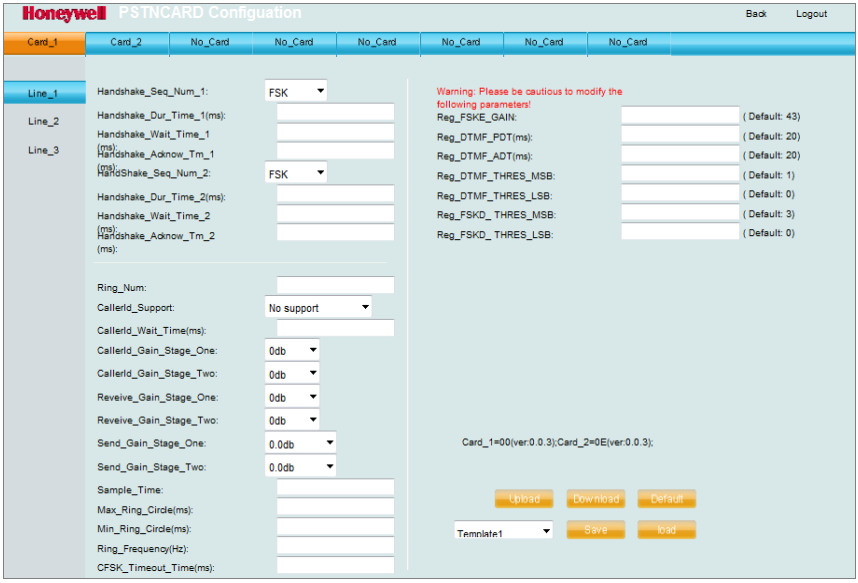
PSTN CARD

Contact your vender or local technical support to install the PSTN CARD. For instructions if PSTN CARD installation, refer to *“PSTN CARD Installation Guide”*.

Note The Doppio supports up to 8 PSTN CARDs.

On the **Configuration** tab (see *Figure 5-3* on page *81*), click “PSTN CARD” and the following figure is displayed:

Figure 5-26 PSTN CARD



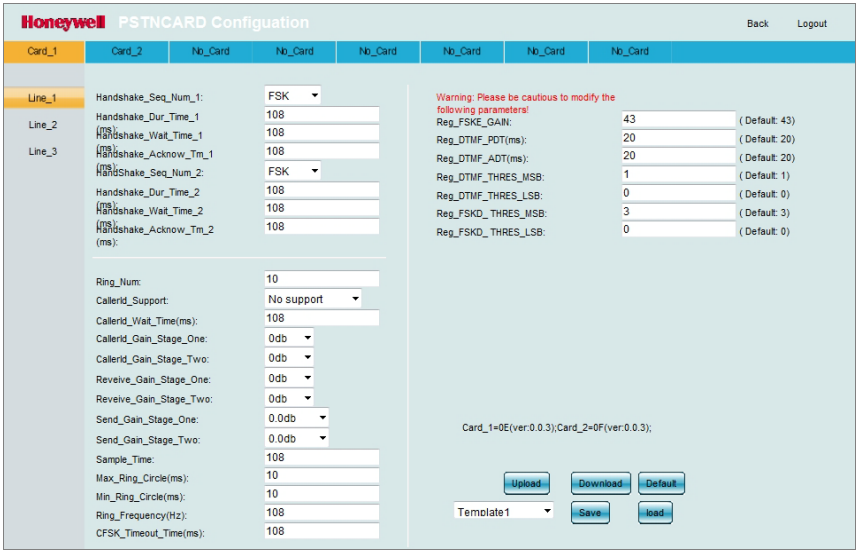
There are 8 card tabs on the top of the interface; 3 line tabs on the left side of the interface. Each IP alarm receiver supports up to 8 PSTN cards, and each PSTN CARD supports up to 3 telephone lines. Configure the parameter values of each line.

To exit and return to the configuration page, click “Back” on the upper right corner (see *Figure 5-3* on page *81*).

Line Parameter Configuration

Take “Card_1, Line_1" as an example:

Figure 5-27 Card_1 Line_1 Configurations



Click “Card_1”and the label of “card_1” turns orange, which indicates that card 1 is being checked or edited; click “Line_1” and the label of “Line_1” turns orange, which indicates that Line_1 is being checked or edited.

- Configure the following parameters:

Table 5-1 Parameter Description and Range of value

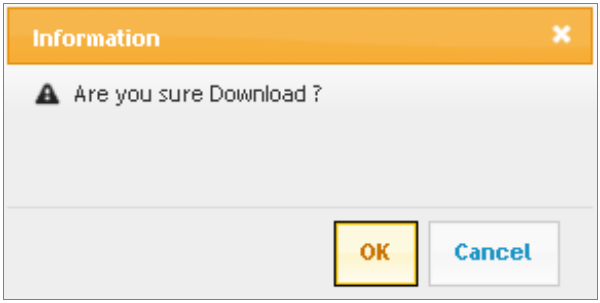
Parameter	Description	Value
Handshake_Seq_ Num_1/2	The first and second Handshake format.（DTMF for receiving DTMF format data; FSK for receiving FKS format data.）	DTMF/FSK
Handshake_Dur_ Time_1/2(ms)	Used as a reserved parameter.	N/A
Handshake_Wait_ Time _1/2(ms)	The interval between the 1400 and 2300 handshake signals. Only valid for DTMF format.	0~255ms
Handshake_Ackonw_ Time _1/2(ms)	The duration time of sending the handshake, valid for FSK/DTMF handshake formats.	0~65536ms
Ring_Num	Times of ring, configuring how many rings PSTN CARD receives before off-hooking.	0~255
CallerId _Support	Select the callerId display format. (“FSK format” receives the caller	FSK format/DTMF

	Id with the FSK format; “DTMF format” receives the caller Id with the DTMF format; “no support” doesn’t support the caller Id display.)	format/NO support
CallerId_Wait_Time (ms)	The wait time of waiting for DTMF format data after receiving the first ring. It is valid only when the CallerID_Support is configured as the DTMF format.	0~255(unit: 100ms)
CallerId _Gain_Stage_ One/ Two	Receive the CallerId _Gain_Stage of CallerId display.	0db/6db/12db/18db/24db
Receive_Gain_Stage_ One/ Two	The Receive_Gain_Stage of receiving alarm data after off-hooking.	0db/6db/12db/18db/24db
Send_Gain_Stage_ One/ Two	The Send_Gain_Stage of sending handshake.	-31.5db~24db
Sample_Time	Interval time of detecting whether the port is connected to a telephone line.	0~255(unit: 100ms)
Max_Ring_Circle (ms)	Reserved.	N/A
Min_Ring_Circle (ms)	Only when the duration of a single ring exceeds this value can the PSTN card detect this ring, which mainly aims at adjusting the valid width detectable by the PSTN card.	0~255ms
Ring_Frequency(Hz)	Only when the interruption times triggered by single rings are shorter than this time can the PSTN card detect this time, which mainly aims at adjusting the ring frequency supported by the PSTN card.	0~255
CFSK_Timeout _Time(ms)	Reserved.	N/A
Reg_FSKE_GAIN:	Configure the Reg_FSKE_GAIN Calculation rule: db =（FSK restore- 63）/2	0~255
Reg_DTMF_PDT(ms):	Detection time. Only when the DTMF exceeds this time can the DTMF be regarded as valid.	0~255 Each unit is 0.5ms , the max value is 255*0.5 = 127.5ms
Reg_DTMF_ADT(ms):	Detection time. Only when the constant stop time of DTMF signals exceeds or equals to this time can the DTMF be regarded as over.	0~255 Each unit is 0.5ms, the max value is 255*0.5 = 127.5ms.
Reg_DTMF_THRES_ MSB: **Reg_DTMF_THRES_ LSB:**	Thresholds valve of DTMF signals. Only when the DTMF signals exceeds this value can it be regarded as valid.	0~255 . The corresponding thresholds valve range: -12db t ~ -66db

Reg_FSKD_THRES_ MSB: Reg_FSKD_THRES_ LSB:	Thresholds valve of FSK signals. Only when the FSK signals exceed this value can PSTN cards detect the FSK signals.	0~255. The default value is recommended and do not modify it.

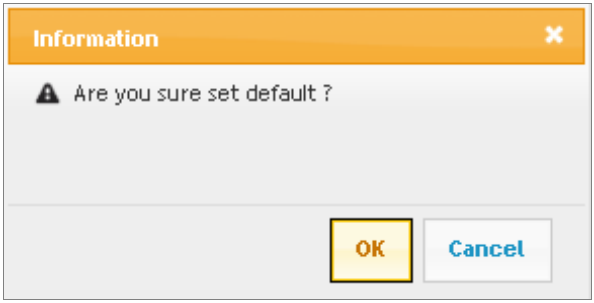
- **Upload:** To obtain the configurations on the PSTN card to this interface, click **Upload**;
- **Download:** Click **Download** and the following pop-up window is displayed. To synchronize the current configurations to the PSTN card, click **OK**;

Figure 5-28 Download



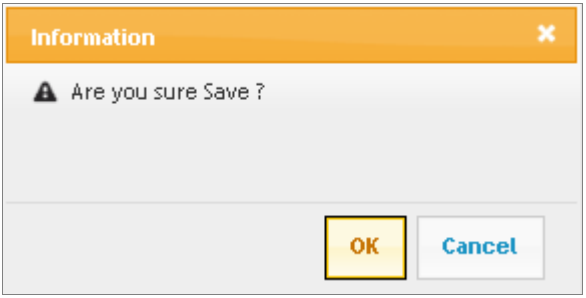
- **Default:** Click **Default** and the following window is displayed. To initialize the configurations of the PSTN card, click **OK**.

Figure 5-29 Default



- **Save:** Select a template from the template drop-down list after configurations and click **OK** to save the configurations as a template. The system provides three templates.

Figure 5-30 Save



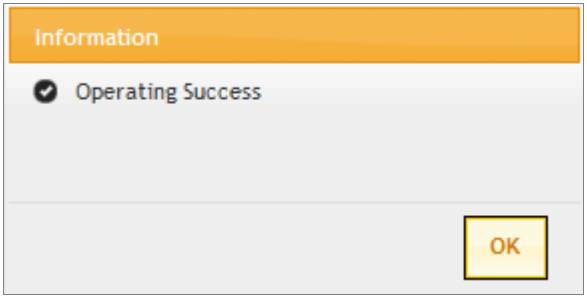
- **Load:** It only applies to the template. Select the target template and click **Load** to load the configurations of the template to the current interface.

Make sure all parameters fields are configured before clicking **Save**, or the error message is displayed.

Line Parameter Modifications

- To modify the configurations of a line of a PSTN CARD, log in the PSTN CARD configuration interface (*Figure 5-27*) and select the target card and line. Enter the new parameter values. Click **Upload** after the modifications.
- To modify the configurations of a certain template, log in the PSTN CARD configuration interface (*Figure 5-27*) and select the target template from the drop-down list. Click **Load** to load the configurations of the template to the current interface. Enter the new parameter values to cover the old parameter value. Click **Save** after the modifications and the following window is displayed. Click **OK** to save the new parameter values to the current template.

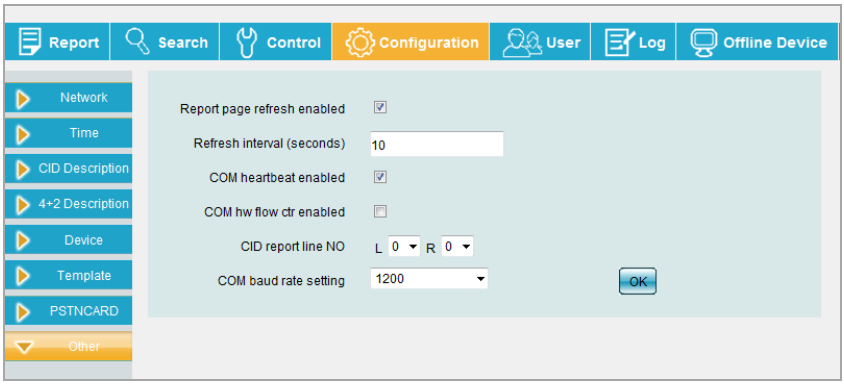
Figure 5-31 Save



Other

On the **Configuration** tab (see *Figure 5-3* on page *81*), click “Other” and the following figure is displayed.

Figure 5-32 Other



Report page refresh enabled: Select the checkbox and the “Report” page will refresh automatically.

Refresh internal (seconds): Input the refresh internal of the “Report” page. The number input should be integer from 1 to 20.

COM heartbeat enabled: Select the checkbox to enable the heartbeat between PSTN Alarm Receiver and the Central Monitoring System (CMS). It is enabled by default. Do not modify this item unless in special cases (If this item is modified, restart the PSTN Alarm Receiver to apply the new settings).

COM hw flow ctr enabled: Select the checkbox to enable the COM hardware flow control, unchecked by default.

CID report line NO: Set the CID heartbeat report line NO(Different line NO indicates different heartbeat report, 00 by default, from 00~88).

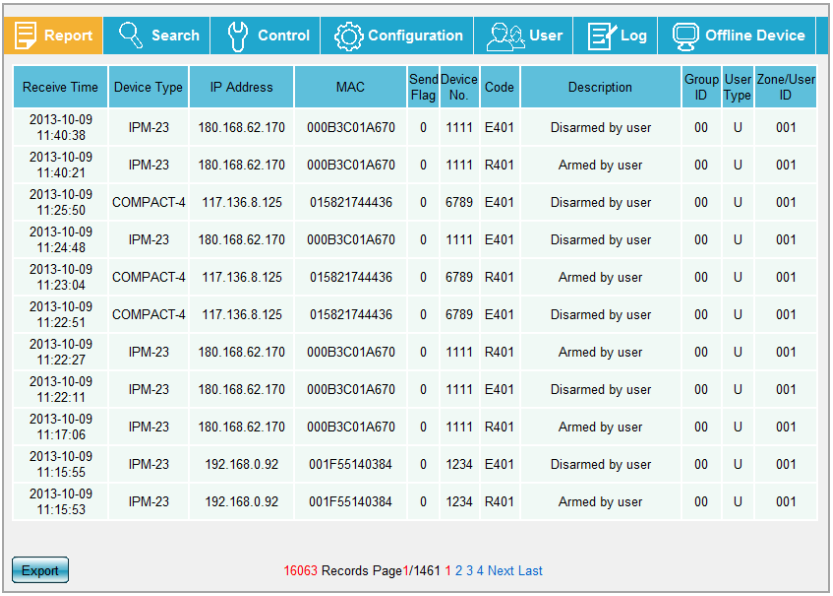
COM baud rate setting: Set the baud rate between the Doppio and the computer, 1200 by default.

Click **OK** to save the settings.

Report

Click the **Report** tab and the following window is displayed.

Figure 5-33 Report

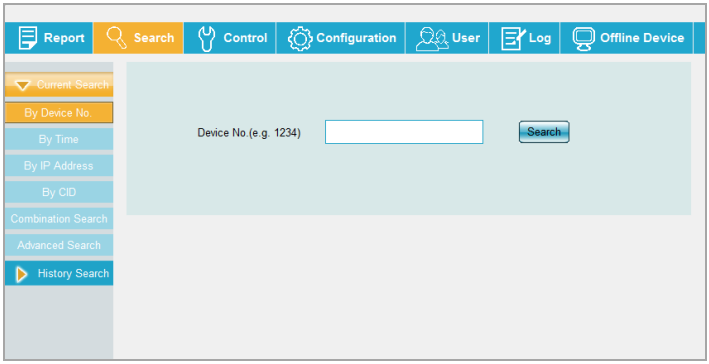


Click **Export** to export all the reports to Excel file. Refer to *Export* on page *108* for details.

Search

Click the **Search** tab and the following window is displayed.

Figure 5-34 Current Search



There are two searching methods: “Current Search” and “History Search”. Current alarm reports can be searched by “Current Search”. Alarm reports that have been backed up can be searched by “History Search”.

Note

- By default, the results searched by “Current Search” are alarm reports of the current month.
- “History Search” aims to search the backed up data (the system will automatically back up all the alarm reports at 00:00 of the first day of each month).

There are six searching criteria for current search and history search respectively:

- By Device No.
- By Time
- By IP Address
- By CID
- Combination Search
- Advanced Search

“Advanced Search” supports the SQL query sentences, while “Combination Search” can integrate all the search combinations and display the search results on the results page.

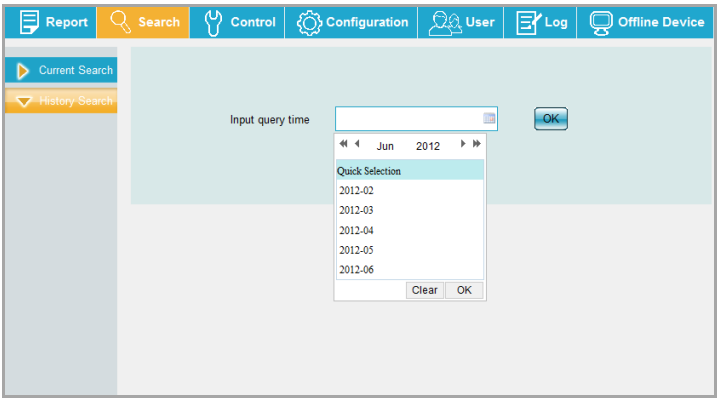
Current Search

To search the current reports, click “Current Search”, select one searching criteria, input the value and click **Search**. The searching result is displayed as in *Figure 5-37* on page *108*.

History Search

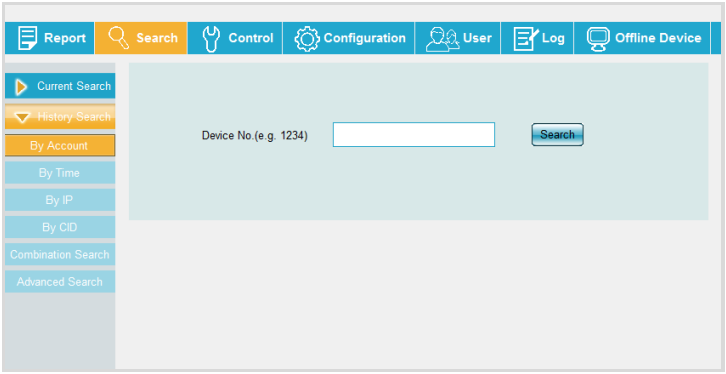
To search the backed up reports, click “History Search” and the following window is displayed.

Figure 5-35 History Search



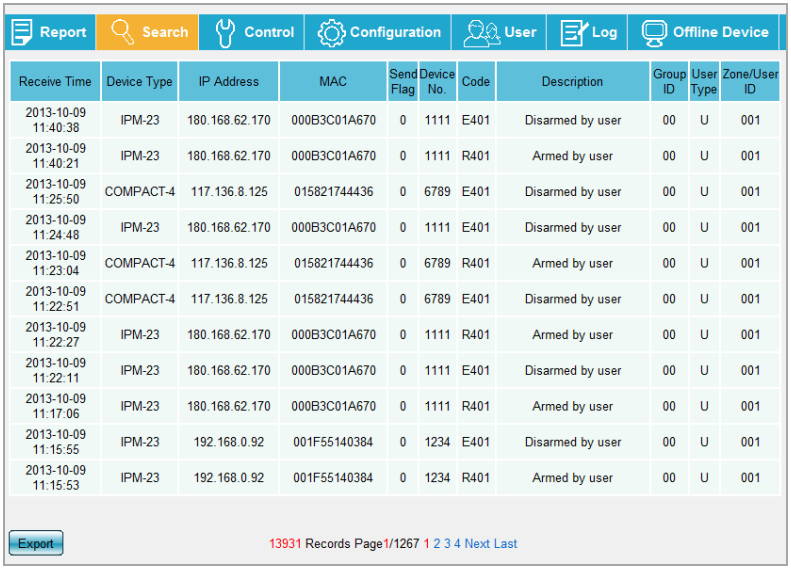
Select the month, click **OK** and the following window is displayed.

Figure 5-36 History Search



Select one searching criteria, input the value and click **Search**. The searching result is displayed as in *Figure 5-37* on page *108*. Meanwhile, on the **Report** tab, it displays the reports of the specified month (see page *105* about *Report* for details). To display the current reports, click “Current Search” on the left side of the page.

Figure 5-37 Search Report



Receive Time	Device Type	IP Address	MAC	Send Flag	Device No.	Code	Description	Group ID	User Type	Zone/User ID
2013-10-09 11:40:38	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	Disarmed by user	00	U	001
2013-10-09 11:40:21	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	Armed by user	00	U	001
2013-10-09 11:25:50	COMPACT-4	117.136.8.125	015821744436	0	6789	E401	Disarmed by user	00	U	001
2013-10-09 11:24:48	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	Disarmed by user	00	U	001
2013-10-09 11:23:04	COMPACT-4	117.136.8.125	015821744436	0	6789	R401	Armed by user	00	U	001
2013-10-09 11:22:51	COMPACT-4	117.136.8.125	015821744436	0	6789	E401	Disarmed by user	00	U	001
2013-10-09 11:22:27	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	Armed by user	00	U	001
2013-10-09 11:22:11	IPM-23	180.168.62.170	000B3C01A670	0	1111	E401	Disarmed by user	00	U	001
2013-10-09 11:17:06	IPM-23	180.168.62.170	000B3C01A670	0	1111	R401	Armed by user	00	U	001
2013-10-09 11:15:55	IPM-23	192.168.0.92	001F55140384	0	1234	E401	Disarmed by user	00	U	001
2013-10-09 11:15:53	IPM-23	192.168.0.92	001F55140384	0	1234	R401	Armed by user	00	U	001

Click **Export** to export the reports to Excel file.

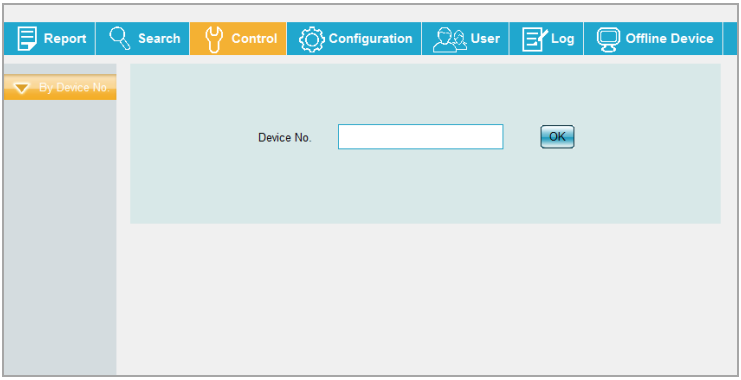
Export

Click **Export** (see *Figure 5-37* on page *108*) to export the latest 5000 reports to Excel file. If the number of reports is less than 5000, all the reports will be exported. It may take up to 10 seconds.

Control

Click the **Control** tab and the following window is displayed.

Figure 5-38 Control



Input Device No. and click **OK** to enter the control interface.

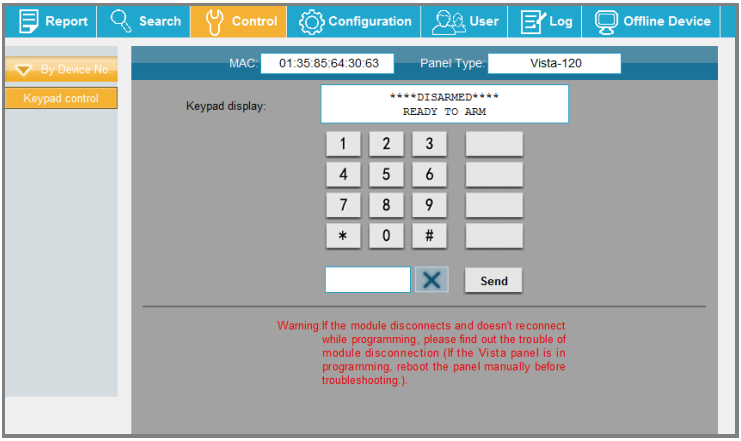
- Vista Series Panel: refer to *Figure 5-39* on page *110*
- 23XX Super Control Panel: refer to *Figure 5-40* on *111*
- 23 Series Panel: refer to *Figure 5-41* on page *113*

Note Ensure that the device has been added (see page *89* for *Add Device*).

Control (Vista Series Panel)

Vista Series Panel can be controlled through the keypad (see the following figure).

Figure 5-39 Keypad Control (Vista Series Panel)



Keypad display: Shows the information of the keypad.

Input the commands by clicking the keys on the keypad (the input content will be displayed in the column below the keypad) and click **Send**. To clear the content in the column below the keypad, click  . Please refer to the user manual of the panel for reference.

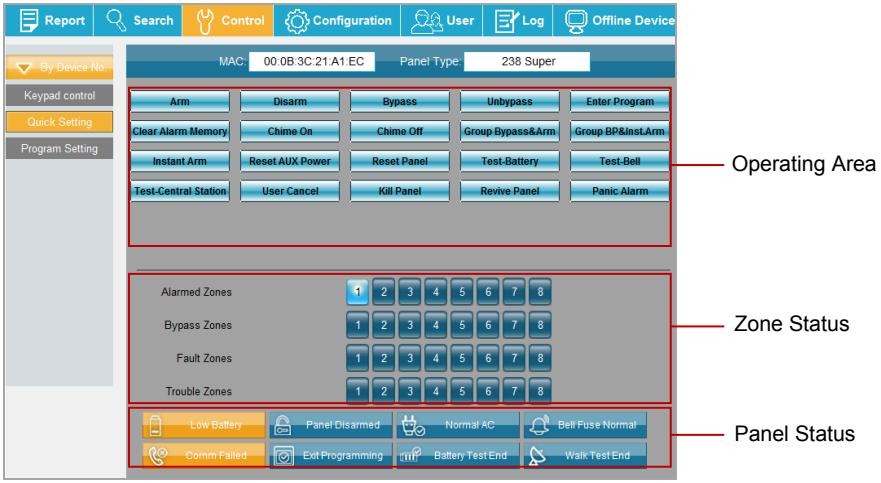
Note	To trigger the soft zone, click the soft zone button, and then click “#” to confirm.

Control (23XX Super Control Panel)

Quick Settings (23XX Super Control Panel)

After entering the Device No. of 23XX super control panel on the control page, the “Quick Settings” page is displayed:

Figure 5-40 Quick Settings (23XX Super Control Panel)



Operating Area: Click the keys to control the panel. The function of each key is illustrated as below:

Button	Function
Arm	Arm the system.
Disarm	Disarm the system.
Bypass	Select the zones to be bypassed in the prompted “Bypass” field, and then click **OK** to confirm.
Unbypass	Deselect the zones to be unbypassed in the prompted “Bypass” field, and then click **OK** to confirm.
Enter Program	Enter “Program Settings” page. See *Program Settings* on page *115*
Clear Alarm Memory	Clear the alarm memory of all the zones.
Chime On	Enable the chime.

Chime Off	Disable the chime.
Group Bypass & Arm	Arm the system. The zones for which “group bypass” is enabled will be bypassed.
Group BP & Inst. Arm	Arm the system. The zones for which “group bypass” is enabled will be bypassed. “Delay zone” becomes “instant zone”.
Instant Arm	Arm the system. “Delay zone” becomes “instant zone”.
Reset AUX Power	Reset the auxiliary power supply.
Reset Panel	Reset the panel.
Test Battery	Test battery. “Panel status” column will display “Battery test ongoing”. When the test finishes, it displays “Battery test end”. The test result displays as “Normal battery” or “Low battery”.
Test Bell	Test the bell output.
Test Central Station	Trigger the panel to send a test report to the assigned central station.
User Cancel	Confirm the alarm status.
Kill Panel	Turn off the panel.
Revive Panel	Turn on the panel.
Panic Alarm	Activate the panic alarm.

Zone Status: It shows the status of zone. The indicator is highlighted (

) if the zone is in alarmed, bypassed, fault or trouble status.

Panel Status: It shows the status of panel.

Note If the version is updated, please refresh the page.

Control COMPACT-4 Series Panel

The operation is similar to which of 23XX Super Control Panel. See "*Control (23XX Super Control Panel)*" on page *110* for details.

Control (23 Series Panel)

Keyboard Control

Note On the "Control (23 Series Panel)" page (see *Figure 5-41* on page *113*), if no mouse clicking or keyboard operation within 5 minutes, it will return to the **Control** tab (see *Figure 5-38* on page *109*).

Click "Keypad Control" and the following window is displayed.

Figure 5-41 Keypad Control (23 Series Panel)

Operating Area: Input command by clicking the keys on the keypad (Please refer to the user manual of the panel for reference). For example, to bypass zone 9, click  , "9" and "#".

"Keypad Display" will show the information entered through the keypad. To clear the content in the "Keypad display" column, click . "23 Panel Program Settings" window (see *Figure 5-43* on page *115*) can be entered by inputting the right command.

Note	To trigger the soft zone, click the soft zone button, and then click "#" to confirm.

Zone Status: It shows the status of zone. The indicator is highlighted ( ) if the zone is in alarmed, bypassed, fault or trouble status.

Panel Status: It shows the status of panel.

Quick Settings for 23 Series Panel

Note	Vista Series Panel doesn't support quick settings.

On the **Control** tab (see *Figure 5-41* on page *113*), click "Quick Settings" and the following window is displayed.

Figure 5-42 Quick Settings

Operating Area: Click the zone number to bypass the zone (wait until the selected zone entered bypassed status before selecting the next zone). Click **Arm or disarm** to arm or disarm the panel. Click **Program Settings** to enter the Program Settings window (see *Figure 5-43* on page *115*).

Zone Status: It shows the status of zone. The indicator is highlighted (1) if the zone is in alarmed, bypassed, fault or trouble status.

Panel Status: It shows the status of panel.

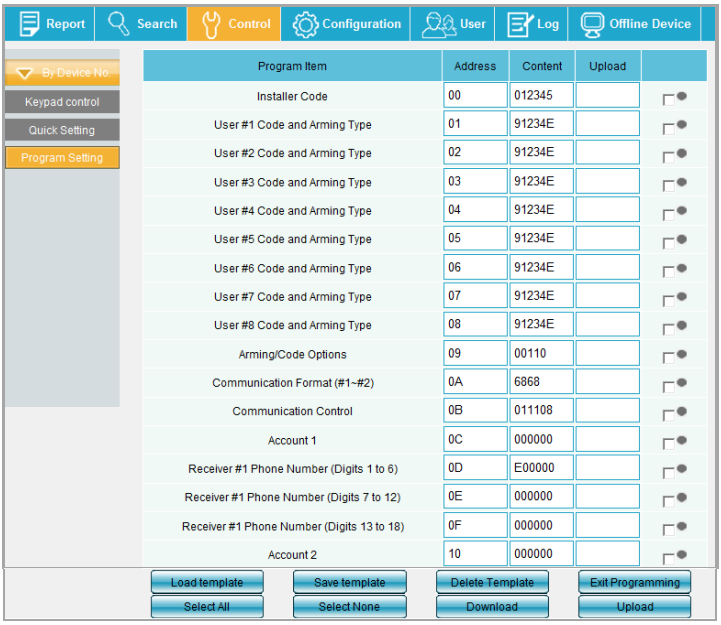
Note On “Quick Setting” page, if there is no mouse clicking or keyboard operation within 5 minutes, it will return to “Keypad Control” page automatically (see *Figure 5-41* on page *113*).

Program Settings

Click “Program Settings” and the following figure is displayed.

Note On “Program Settings” page (see the following figure), if there is no mouse clicking or keyboard operation within 5 minutes, it will return to “Keypad Control” page automatically (see *Figure 5-41* on page *113*).

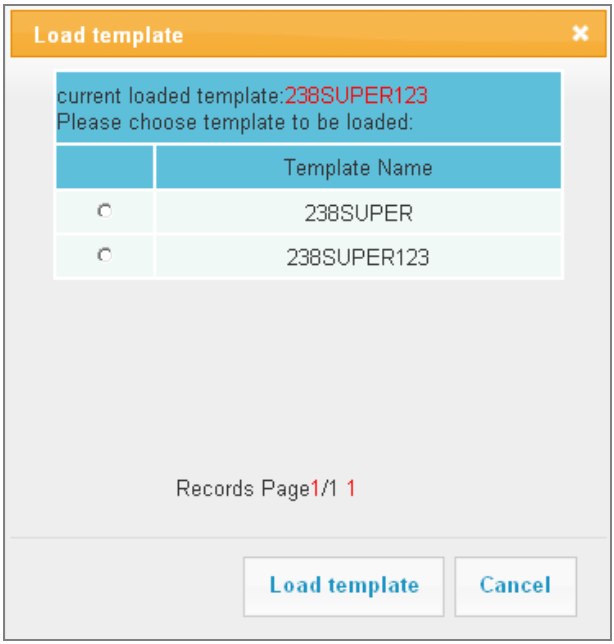
Figure 5-43 Program Settings



Load Template

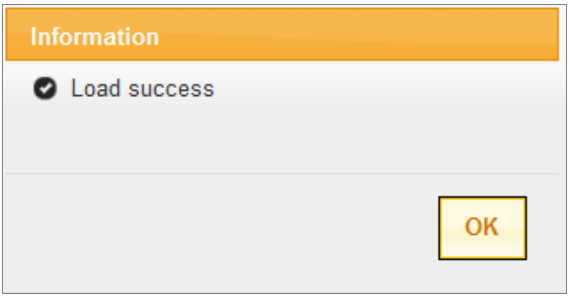
Click **Load Template** (see *Figure 5-43* on page *115*) and the following window is displayed to show the “current template” and available templates.

Figure 5-44 Load Template



Select the template to be loaded and click **Load Template**. The following window is displayed to show that the template is loaded successfully.

Figure 5-45 Loading the Template Succeeded



Save Template

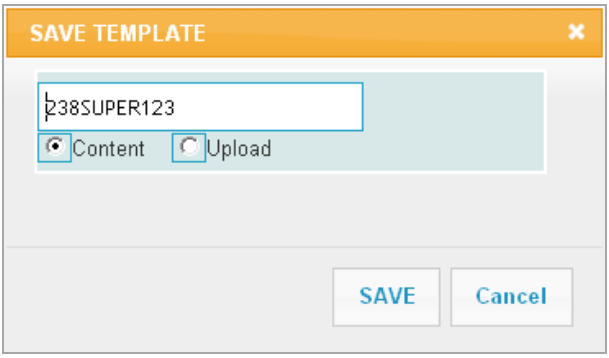
Data in the “Content” and “Upload” column can be saved as template respectively.

Save "Content"

Perform the following operations to save data in the "Content" column.

Modify the data in the "Content" column and click **Save template** (see *Figure 5-43* on page *115*). The following window is displayed.

Figure 5-46 Save Template -- Content



Input Template Name, select the "Content" checkbox and click **Save**.

Note

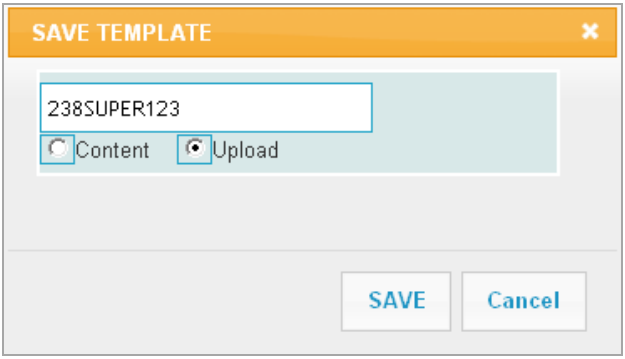
For 23XX Super Control Panel, if the contents are in grey, the corresponding program addresses are read-only. During program settings, those contents can be uploaded, but cannot be downloaded. User can configure the contents of those program addresses through keypad of the control panel.

Save "Upload"

Perform the following operations to save data in the "Upload" column.

Select all the items (see *Figure 5-43* on page *115*) and click **Upload** to upload all the data from the panel to the Doppio (see *Upload* on page *120*). When the "Upload" is completed, click **Save template**. The following window is displayed.

Figure 5-47 Save Template -- Upload



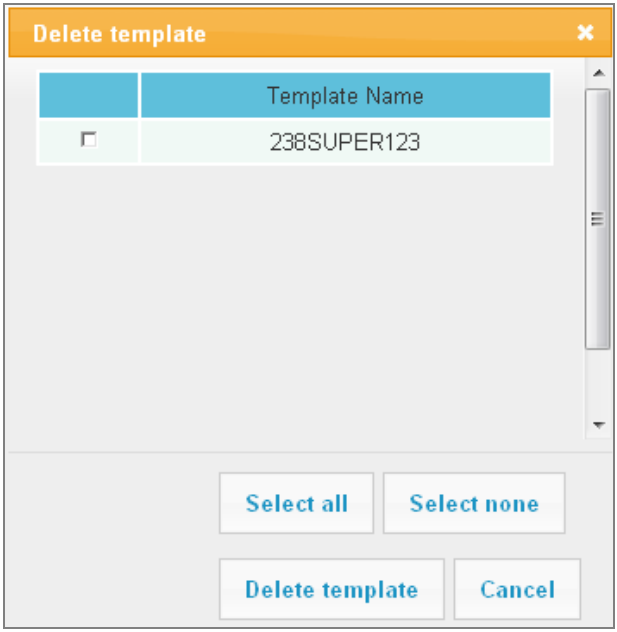
Input Template Name, select the “Upload” checkbox and click **Save**.

Note	The template name contains alphabetical characters and numbers. No space is allowed.

Delete Template

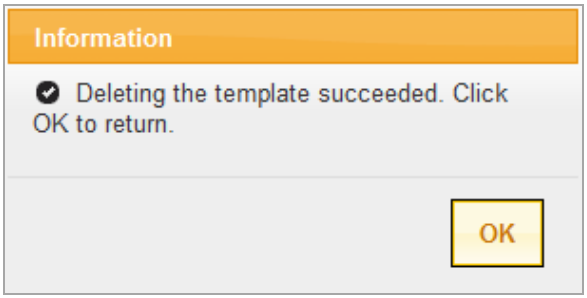
To delete the template, click **Delete Template** (see *Figure 5-43* on page *115*) and the following window is displayed.

Figure 5-48 Delete Template



Select the template to be deleted and click **Delete Template**. A dialogue box pops up to confirm the deletion. Click **OK** to confirm. The following window is displayed if the template is deleted successfully.

Figure 5-49 Deleting the Template Succeeded



Exit Programming

Click **Exit Programming** (see *Figure 5-43* on page *115*) to return to the “Keypad Control” page (see *Figure 5-41* on page *113*).

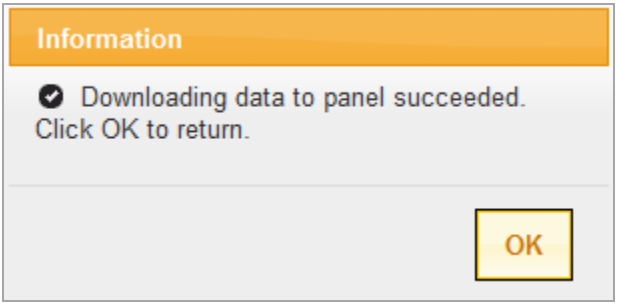
Download

Select the program items, edit the program content and click **Download** (see *Figure 5-43* on page *115*) to download the data to the panel.

Figure 5-50 Download

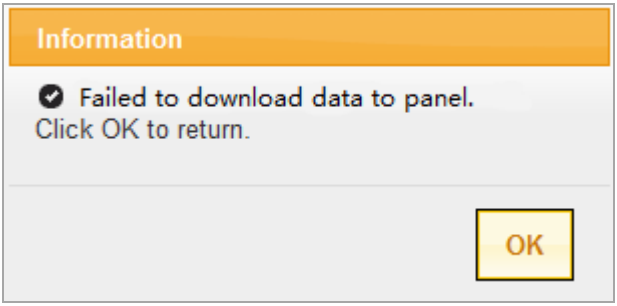
The following window will be displayed after successful download.

Figure 5-51 Downloading Succeeded



If it failed to download, the following window is displayed and the indicator of the item turns red.

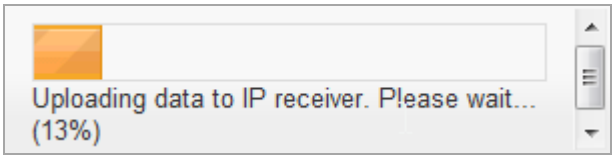
Figure 5-52 Downloading Failed



Upload

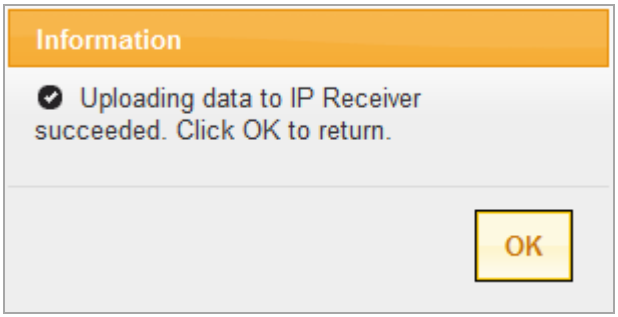
Select the program items and click **Upload** (see *Figure 5-43* on page *115*) to upload data from the panel to the Doppio.

Figure 5-53 Upload



The following window is displayed after successful upload.

Figure 5-54 Uploading Succeeded



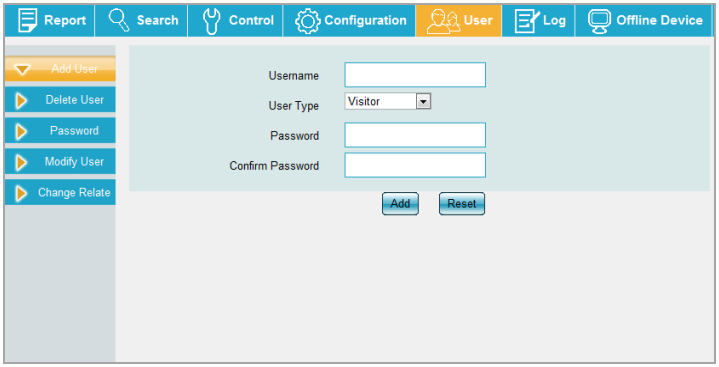
User

Click the **User** tab and *Figure 5-55* is displayed.

Add User

On the **User** tab, click “Add User” and the following window is displayed.

Figure 5-55 Add User



- **User Name**: Input username (“Username” must contain 5-20 characters, alphabetical characters and numbers only.).
- **User Type**: Select the user type (mobile subscriber, visitor, operator or administrator).
- **Password**: Input the password (“Password” must contain 5 to 20 characters.).
- **Confirm Password**: Input the password again.

Click **Add** to add a user.

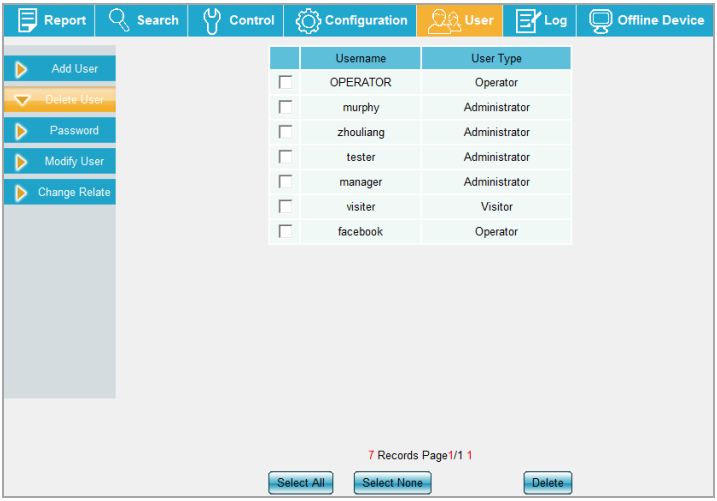
Note

- Mobile subscriber’s Authority: User can download Doppio application in the HiMarket. Contact your vendor for the details.
- Visitor’s Authority: **Report**, **Search**, **User** (can only modify the password) and **Offline Device** (no authority of ignoring devices).
- Operator’s Authority: **Report**, **Search**, **Control** (cannot enter program settings by shortcut key), **User** (can only modify the password), **Log** and **Offline Device** (no authority of ignoring devices.).
- Administrator’s Authority: **Report**, **Search**, **Control**, **Configuration** (can not import or export device information), **User** (can only add Operator and Visitor), **Log** and **Offline Device**.
- Super Administrator’s Authority: All.

Delete User

On the **User** tab, click “Delete User” and the following window is displayed.

Figure 5-56 Delete User

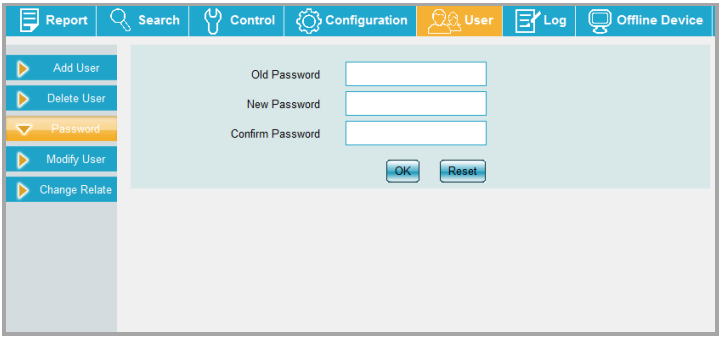


Select the user to be deleted and click **Delete**.

Password

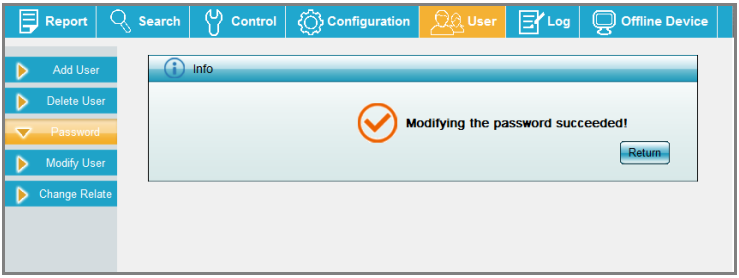
On the **User** tab, click “Password” and the following window is displayed.

Figure 5-57 Modify Password



Input “Old Password”, “New Password”, “Confirm Password”, and click **OK**. The following window is displayed if the password is modified successfully.

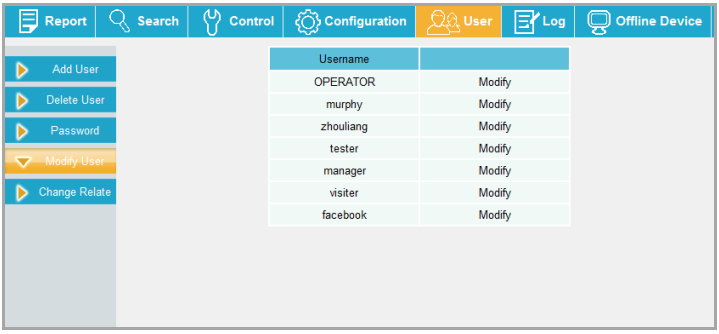
Figure 5-58 Modifying the Password Succeeded



Modify User

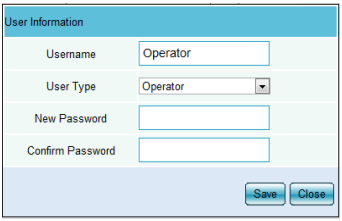
On the **User** tab, click “Modify User” and the following window is displayed.

Figure 5-59 Modify User



Click “Modify” to edit the user’s information (see the following figure).

Figure 5-60 Modify User Information



Username: Unchangeable

User Type: Select user type from the drop-down list

New Password: Input new password

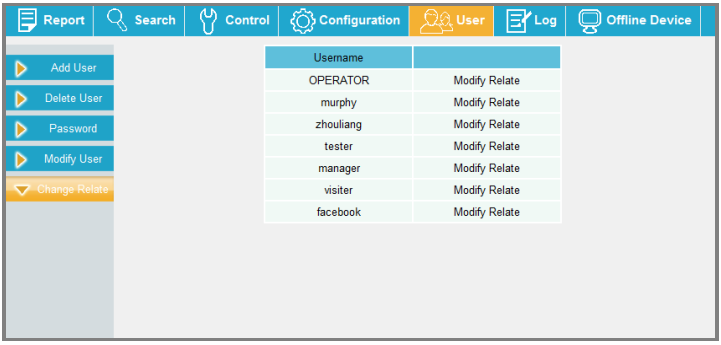
Confirm Password: Input the new password again

Click **Save** to save the modified information.

Change Relate

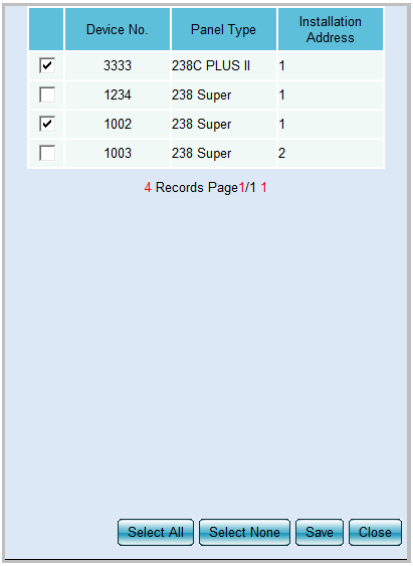
On the **User** tab, click “Change Relate” and the following window is displayed.

Figure 5-61 Change Relate



Click “Modify Relate” to view and change the relate devices of the user (see the following figure). The user has the authority to control the selected relate devices (see *Control* on page *108*).

Figure 5-62 Relate Devices



Select or deselect the relate devices and click **Save**.

Note	Only “Super Administrator” can change the relate devices. “Administrator” can only view the relate devices. “Operator” and “Visitor” have no access to this page.

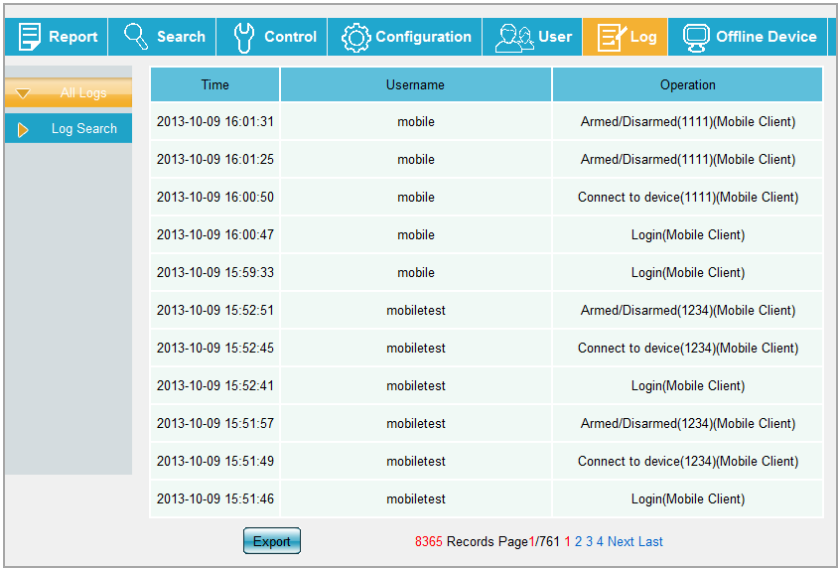
Log

Click the **Log** tab to view all the logs and search log (see *Figure 5-63* on page *126*).

All Logs

On the **Log** tab, click “All Logs” and the following window is displayed.

Figure 5-63 All Logs

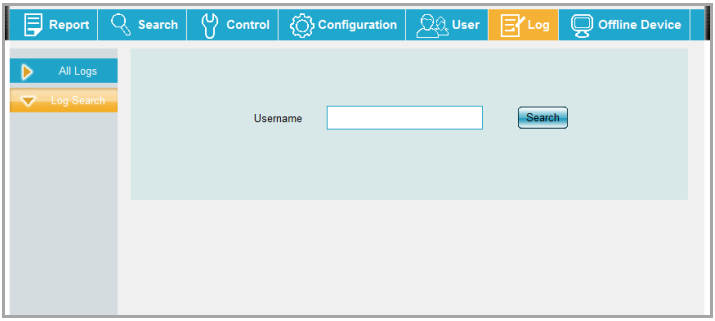


Click **Export** to export all of the logs to Excel file.

Log Search

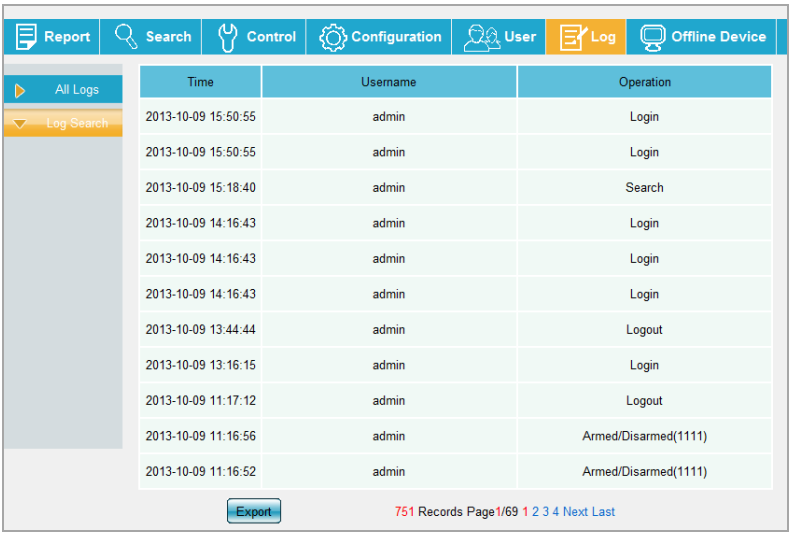
On the **Log** tab, click “Log Search” and the following window is displayed.

Figure 5-64 Log Search



Input “Username” and click **Search**. The search result is displayed as below.

Figure 5-65 Log Search Result

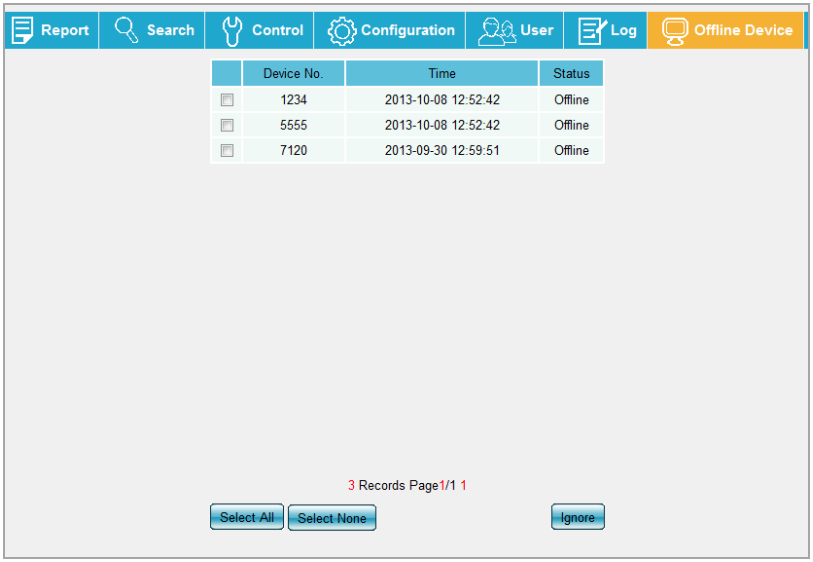


Click **Export** to export the logs to Excel file.

Offline Device

Click the **Offline Device** tab and the following window is displayed.

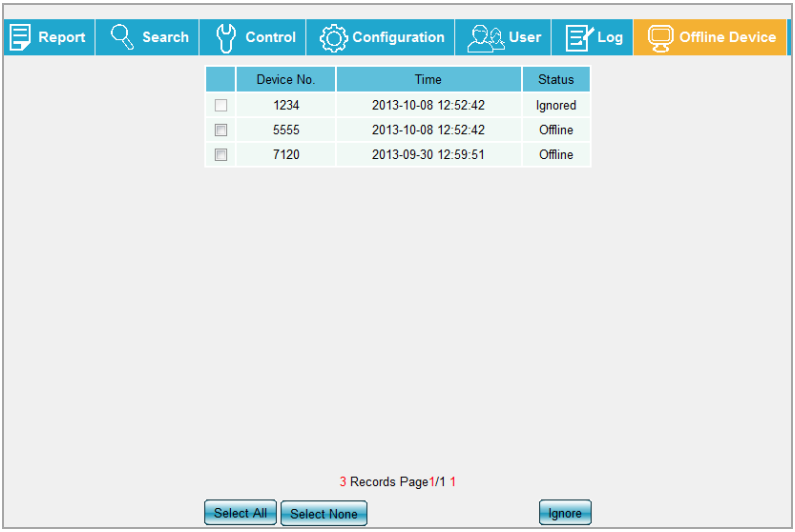
Figure 5-66 Offline Device



It lists all the offline devices. If the device reconnects, the corresponding item will disappear.

Select the device and click **Ignore**, the status of the device will turn to “Ignored”.

Figure 5-67 Ignore



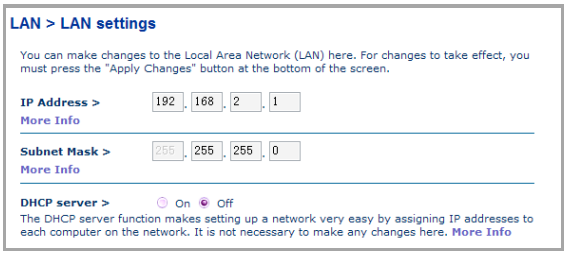
6 Network Structure and Configuration on Router

Alarms from WAN devices are transmitted to the Doppio that is connected to the LAN by router, so you must configure the router to assure the safe and effective alarm receiving status of Doppio. Refer to the following configuration steps (the following steps are for reference only because configuration pages are different according to different types of routers).

1. Open the configuration page of the router by entering the IP address http://192.168.0.1 in the browser.
2. Disable DHCP server: DHCP server assigns IP address automatically, which might cause Doppio to be assigned dynamic IP address and fail to receive the alarms.

   In the configuration page of DHCP server shown in the following figure, select “Off” and click **Apply Changes**.

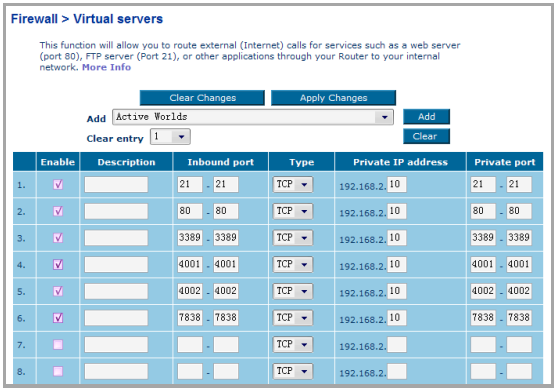
Figure 6-1 DHCP Server Setting



3. Set the virtual server to receive the alarms from the WAN. Set ports to include TCP-7838 and UDP-7839. Enable these ports so that the Doppio can receive the alarms from the WAN.

   In the configuration page of virtual server shown in the following figure, specify the port TCP-7838 and UDP-7839 in the port list, and select the “Enable” checkboxes of these ports. Then click **Apply Changes**.

Figure 6-2 Virtual Servers Setting

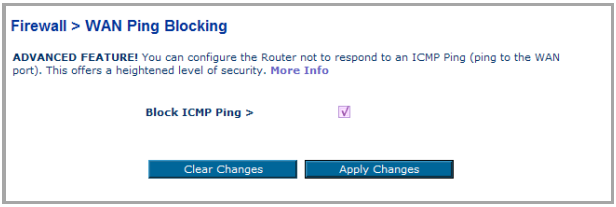


4. Follow the instructions described in the list to configure the security settings of the router:

   - Block the Ping packets from the WAN port to avoid malicious detection (see *Figure 6-3* on page *130*).
   - Enable the function of anti-network attack to prevent DOS attack.
   - Enable the filter function to allow the data packets of TCP-7838 to pass through only, which prevents malicious intrusion.
   - Set a strong password for the router (minimum of 15 characters in length, composed of letters, numbers, and special characters).

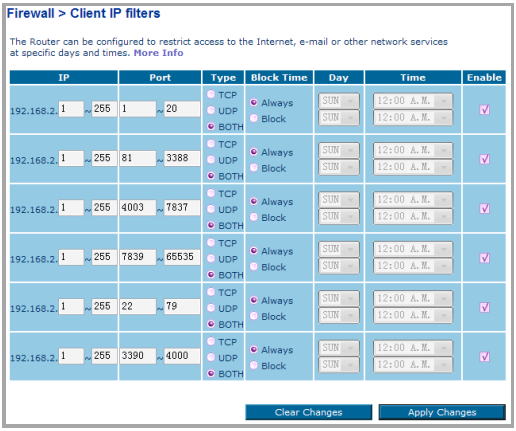
   Ignore the Ping packets from WAN port by selecting the checkbox of “Block ICMP Ping” in the following figure, and click **Apply Changes**.

Figure 6-3 WAN Ping Blocking



In the “Port” column shown in the following figure, specify the port range that does not include the port TCP-7838, select “Both” in the “Type” column, and select “Always” in the “Block Time” column. Click **Apply Changes** when you finish.

Figure 6-4 Client IP Filters



7 Appendix PSTN CARD Installation

To install the PSTN CARD on the IP/PSTN Alarm Receiver, perform the following steps:

1. Turn off the IP/PSTN Alarm Receiver and open the chassis. Insert PCI card into the corresponding PCI slots;
2. Perform the following steps according to the amount of PSTN CARDs:
   - One PSTN CARD

     Insert the PTSN CARD into the any of the PCI slots above the PCI card.
   - Two PSTN CARDs
     - Configure the DIP switches of two PSTN CARDs separately and make sure the DIP switch values are different (For instructions of the DIP switch, refer to *"PSTN CARD Installation Guide"*.);
     - Insert two PSTN CARDs into the PCI slots above the PCI card separately. Make sure the PSTN CARD with smaller DIP switch value is above the PSTN CARD with the larger value.
   - Close the chassis and fasten the screws.

Connect the PSTN CARD and IP/PSTN Alarm Receiver via the USB cable (For instructions of the USB cable, refer to *"PSTN CARD Installation Guide"*.).

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