VS HTTP RPC Protocol
V1.02

修訂歷史

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目錄

1 概述

1.1 範圍

本文檔描述相機的軟體外部介面定義，使用 HTTP RPC 協定，可以實現對相機相關參數的配置、獲取。RPC 協定可以跨平臺在各種設備上使用，減少相容性問題，提高開發效率。

1.2 設計思路

我們通過使用類似遠端程序呼叫（RPC）的機制來實現控制協議，避免開發時過多的關注協議的細節問題，把注意力集中在功能的實現上。

RPC 機制的核心概念是將函式呼叫產生的資料序列化到一個順序流中，然後在接收端對它進行重組。這兩種行為同步發生，就好像傳統的過程化程式設計一樣。RPC 用戶端進程發出一個看似標準的函式呼叫，但是這個調用不會在本地執行，調用參數被打包並傳遞到一個遠端的執行環境當中，在那裡它們再被傳入真正的執行函數中。在完成函數執行後，執行結果又被序列化傳回用戶端，再由用戶端函數傳給調用者。

我們使用 JSON 技術來完成 RPC 調用的資料序列化以及解序列化過程。

1.3 請求格式

用戶端請求格式：

HTTP Request Head(POST 方式)	HTTP Body (Json-RPC Request)

設備端應答格式：

HTTP Response Head	HTTP Body (Json-RPC Response)

所有 RPC 調用均為 POST 請求，JSON 調用作為 HTTP 請求的載荷。同時在 HTTP 頭部我們必須指明 content-type 為 application/json。

我們採用的是 http://json-rpc.org 網站公佈的 Json-RPC2.0(Specification Proposal) 標準，使用具名引數的方式（Procedure Call with named parameters），並在此基礎上進行了更進一步的規範。

返回有正常操作返回以及異常出錯返回兩種情況，異常返回包括 JSON-RPC 調用參數不匹配，內部伺服器錯誤等，在這種情況下我們在應答包中的 error 中給出錯誤資訊。在正常情況下則通過 result 返回操作結果，result 可以返回單值或者多值，調用方必須正確處理這種情況。

1.3.1 Request

用戶端通過向遠端服務發送一個請求的方式來實現對遠端方法的調用，而這個請求是一個由 JSON 協定序列化的物件，含有下面七個屬性（其中 object 廢棄，target、seq 可選）：

object：被調用物件 ID，類型 uint32_t，其中 0 值表示無效 ID。ID 由組件的創建請求返回。除了全域請求和創建請求，每個請求都需要帶上物件 ID。已廢棄，部分指令如 PTZ 為了相容保留

method：被調用方法名；

params：被調用方法的參數清單，必須是個物件；

id：請求 id，必須為無符號整形，其中 0 值表示無效 id；請求方需要帶此欄位，用於得到回應後匹配請求。每請求一次，id 號遞增。

session：會話編號，是一個無符號整形，其中 0 值表示無效 session，鑒權成功後每次請求和回應都應該包含該編號，一個編號對應一個用戶的使用週期。登錄後各 Request、Response、Notification 都應包括該欄位，下文部分示例中省略，但實際使用時必須填寫。

seq: 請求序號；在短連接的會話上，發送某些有先後關聯的請求，比如 ptz.start/ptz.stop，為防止在設備端收到請求亂序，需要增加此項。是一個 uint32_t 類型，其中高 24 位元用於標識用戶端，可以取 SessionID 或 IP 位址的低 24 位。低 8 位元為請求順序號，保證有先後關係的請求是依次遞增。即 ptz.start 的 seq 一定比對應的 ptz.stop 小。

以獲取全域測溫配置為例，此請求中包含 method, params, id, session。

RPC Request: http://192.168.1.108/RPC2	
Sample	Description
{	
"method":" configManager.getConfig",	獲取配置
"params":{	
"name":"HeatImagingThermometry",	
},	
"id":117,	
session: 45347840	
}	

1.3.2 Response

當方法調用完成後，伺服器必須給出一個回應，而這個響應也是一個由 JSON 協定序列化的物件，其含有五個屬性：

result：是一個由被調用方法返回的結果，只使用 bool 和 unsigned int 兩種類型，在元件工廠取物件 ID 時，返回 unsigned int 類型資料(由於請求的 object 欄位已廢棄，從元件工廠取物件這種方式也不復存在，不會返回 unsigned int)，在元件方法調用時，返回 bool 類型資料；

params：輸出參數，必須是個物件；只有當 result 為 true 時才存在。

error：調用錯誤原因，只有當 result 為 false 時才存在。是一個物件，如：

```
"error" : {
    "code" : 268632066, // 0x10030002
    "message" : "ClientNotFound"
}
```

其中 code 表示錯誤的整形編碼,擴展代碼 message 表示錯誤的字串。參見各組件錯誤號定義,RPC 本身的錯誤使用 RPCFramework 元件錯誤號。

  id:與要回應的請求的 id 相同;

  session :會話編號,伺服器在鑒權成功後返回該編號,以後每次請求和回應都應該包含該編號,一個編號對應一個用戶的使用週期。

  以獲取全域測溫配置為例,此回應中包含 params, id, session, result

RPC Response:

Sample	Description
{	
"id":117,	
"params":{	
"table":	配置詳細見配置結構
{	
"AtmosphericTemperature": 23,	
...	省略
"TemperEnable": true	
}	
},	
"session":45347840	
"result":true	
}	

1.3.3 Notification

  服務推送通知一般用消息訂閱,類似 C++介面的回呼函數。作用戶端向服務端通過 Request 訂閱消息後,是服務端向用戶端反向傳遞資料的方式。Notification 通知是一個沒有回應的特殊的請求,可以理解為返回值是 void 的函數,也是由 JSON 協定序列化的物件。與一般請求的區別在於,其請求 id 應為 0。

  method:通知方法名;

  callback:回呼函數 ID;

  params:被調用函數的參數清單,必須是個物件;

  id:訂閱 id,與請求 id 一致,必須為 0;由於三代協議為適配二代 SDK 的 0xF6 命令方式,此 id 必須填寫,否則無法收到訂閱消息

  session:會話編號,和請求時一致。

  訂閱和通知需要通過某種途徑進行關聯,以便用戶端正確地處理通知,關聯方式有三種:

關聯	描述	策略
Notification.method	直接指明回呼函數名稱,這個名稱只能用於對通知進行分類,和實際函數的函數名稱沒有關係。不能處理多個訂閱。	不推薦使用 如何判斷收到的消息是回應來還是訂閱上報,不同的用戶端使用不同的機制。 RPCClient 根據訂閱上

		報帶 method 　AVSDK 根據無 result 欄位 　NetSDK 除以上兩點外，還要根據 id 值的低 8bit 確認是訂閱回復
Response.params.SID 　Notification.params.SID 　SID 為 32 位元無符號整形	用戶端請求訂閱後，服務端產生訂閱 ID，即 SID (Subscriber Identity)，返回給用戶端，用戶端維護 SID 和用戶代碼回呼函數的對應關係，以便在收到通知時調用正確的回呼函數。	相容
Request.params.proc 　Notification.callback 　CID 為 32 位元無符號整形	用戶端產生回呼函數 ID，即 CID (Callback Identity)，傳給服務端，並維護 CID 和用戶代碼回呼函數的對應關係，以便在收到通知時調用正確的回呼函數。這種方式和 C++Interface 介面形式一致。	推薦

目前三種方式需要共存，相容處理如下：

1，所有 Notification 都指定 method 且不帶 result；

2，已經實現為 SID 方式的也保留；

3，新加的協定統一支援 CID。

1.4 會話與連接

　　從一個用戶登錄開始，到此用戶登出，所有的命令請求與回應形成一次會話。可見會話是和一個用戶的聲明週期對應的，管理請求之間的關係，以及歷史狀態，維護協定的狀態機。不同的會話通過會話 ID 來區分。

2 登錄

2.1 登錄

系統所有操作，需要先登錄獲取會話 ID。為了提高系統的安全性，設備端採用 Digest 做二次認證。

2.1.1 首次登錄配置

RPC Request: http://192.168.1.108/RPC2_Login		
Sample	**Description**	**Value**
{		
"method": "global.login",	登錄指令	固定為 global.login
"params": {		
"userName": "admin",	登錄用戶名	Web 端用戶名
"password": "",	登錄密碼	不需要攜帶密碼資訊
"clientType": "Web3.0",	伺服器類型	固定為 Web3.0

"loginType": "Direct"	登錄類型	固定 Direct
},		
"id": 1	ID 號	累加範圍 1-65535
}		

RPC Response:		
Sample	Description	Value
{		
"error": {		
"code": 268632079,	Code 值	
"message": "Component error: login challenge!"		
},		
"id": 1,	登錄 ID	請求 ID 一致
"params": {		
"authorization": "ecd96bfa32ed521cda6e9a8ed1701e6b3ef687d0",	授權值	
"encryption": "Default",	加密方案	
"mac": "errormac",		
"random": "467443216",	亂數	用於計算二次登錄金鑰
"realm": "Login to 52:17:91:64:33:89"	登錄 設備 mac	用於計算二次登錄金鑰
},		
"result": false,	登錄結果	
"session": 702512128	登錄權杖	
}		

2.1.2 二次登錄配置

RPC Request: http://192.168.1.108/RPC2_Login		
Sample	Description	Value
{		
"method":"global.login",	登錄指令	固定為 global.login
"params": {		
"userName": "admin",	登錄用戶名	Web 端用戶名
"password": CFE3EA4ECBA216743BFD144EB6B16B4B,	金鑰	計算方式請看 seq3 示例
"clientType": "Web3.0",	伺服器類型	固定為 Web3.0
"loginType": "Direct",	登錄類型	固定 Direct
"authorityType": "Default"		
},		
"id": 2,	ID 號	累加範圍 1-65535
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

RPC Response:		
Sample	Description	Value
{		
"id": 2,	登錄 ID	請求 ID 一致
"params": {		
"keepAliveInterval": 60	登錄後保活時間	
},		
"result": true,	登錄結果	

"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

2.1.3 登錄示例

以下舉例說明登錄過程。

Step1：首次登陸請求

URL	http://192.168.1.108/RPC2_Login
Request	POST

Body	{
	　　　"method": "global.login",
	　　　"params": {
	　　　　　"userName": "admin",
	　　　　　"password": "",
	　　　　　"clientType": "Web3.0",
	　　　　　"loginType": "Direct"
	　　　},
	　　　"id": 1
	}

Step2:收到設備端回復

RPCResponse	

Body	{
	　　　"error": {
	　　　　　"code": 268632079,
	　　　　　"message": "Component error: login challenge!"
	　　　},
	　　　"id": 1,
	　　　"params": {
	　　　　　"authorization": "ecd96bfa32ed521cda6e9a8ed1701e6b3ef687d0",
	　　　　　"encryption": "Default",
	　　　　　"mac": "errormac",
	　　　　　"random": "17742056",
	　　　　　"realm": "Login to 02:31:67:82:61:43"
	　　　},
	　　　"result": false,
	　　　"session": 702512128
	}

Step3:再次認證

URL	http://192.168.1.108/RPC2_Login
Request	POST
| Body | ```
{
        "method": "global.login",
        "params": {
                "userName": "admin",
                "password": "DFFB55174E5DE0E1A41584411F3024D7",
                "clientType": "Web3.0",
                "loginType": "Direct",
                "authorityType": "Default"
        },
        "id": 2,
        "session": 702512128
}
``` |

Password 的計算方式：

從 **Step2** 我們可以獲取到 **realm**、**random** 兩個值：

realm	**"Login to 02:31:67:82:61:43"**
random	**"17742056"**

第二次請求所需要密碼的加密公式：

加密後的密碼= **MD5(username:random:MD5(username:realm:password))**。

假設用戶名密碼都為"**admin**"

則 **MD5(admin:17742056:MD5(admin:Login to 02:31:67:82:61:43:admin))** 計算結果位 **DFFB55174E5DE0E1A4 1584411F3024D7**

MD5 採用 32 位元大寫演算法

Step4：設備端返回登錄成功及會話

RPCResponse		
| Body | ```
{
        "id": 2,
        "params": {
                "keepAliveInterval": 60
        },
        "result": true,
        "session": 702512128
}
``` | |

2.2 保活

2.2.1 保活配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "global.keepAlive",	保活指令	
"params": {		
"timeout ": 60	保活時間	1-60
},		
"id": 3,	ID 號	累加範圍 1-65535
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

RPC Response:		
Sample	Description	Value
{		
"id": 3,	ID 號	請求 ID 一致
"params": {		
"timeout": 60	保活時間	固定為 60S
},		
"result": true,	登錄結果	
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

2.2.2 保活示例

登錄成功以後要定時發送保活指令，不然到達設置保活時間就會掉線。

Seq1：保活請求，請求中保活時間設置無效，固定保活 60S

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "global.keepAlive",
	    "params": {
	        "timeout ": 60
	    },
	    "id": 134,
	    "session": 702512128
	}

Seq2：保活返回

URL	

Body	{
	    "id": 134,
	    "params": {
	        "timeout": 60
	    },
	    "result": true,
	    "session": 702512128
	}

2.3 登出

2.3.1 登出配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "global.logout",	登出指令	
"params": null,		
"id": 4,	ID 號	累加範圍 1-65535
"session":702512128	登錄權杖	第一次的登錄獲取的

}		

RPC Response:		
Sample	Description	Value
{		
"id": 4,	ID 號	請求 ID 一致
"result": true,	登出結果	
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

2.3.2 登出示例

設備運行完畢後需登出操作，達到 web 設置用戶上限，將無法繼續登錄。

Seq1：登出請求

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	     "method": "global.logout",
	     "params": null,
	     "id": 315,
	     "session": 702512128
	}

Seq2：登出返回

RPCResponse	

Body	{
	"id":315,
	"result":true,"
	session":702512128
	}

3 智能測溫

3.1 全域測溫

3.1.1 獲取全域配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.getConfig",	獲取全域配置	
"params": {		
"name": "HeatImagingThermometry"	配置名稱	
},		
"id": 4,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

返回全部配置資訊，具體功能以 **web** 介面顯示為准。設置時 **web** 沒有的參數，按照獲取預設值設置。

RPC Response:		
Sample	Description	Value
{		
"id": 4,	ID 號	請求 ID 一致
"params": {		
"table": {		
"Altitude": 100,	Web 不顯示	默認 100
"AtmosphericTemperature": 23,	大氣溫度	-50-327.7（float）
"AtmosphericTransmissivity": 1,	大氣透過率	0-1（float）

"DistanceDecimalPart": 0.50,	目標距離小數位	0-1（float）
"FontResolutionRatio": 0,	web 不顯示	默認為 0
"HeatMapFormat": "IR-SHEEN",	熱圖格式	IR-SHEEN　私有格式 IR-SGCC　　國網格式 IR-SGCC-FIR64 國網 fir 格式
"HighCTMakerColor": [	高溫點色彩	HotSpotColorMode 手動模式下有效
255,		
255,		
255,		
0		
],		
"HotSpotColorMode": "Manual",	冷熱點顏色設置	Auto Manual
"HotSpotFollow": false,	冷熱點開關	true false
"HotSpotShape": "Circle",	Web 不顯示	默認為點
"Isotherm": {		
"ColorBarDisplay": false,	色標條顯示	true false
"Enable": false,	Web 不顯示	默認 false
"MaxLimitTemp": 140,	Web 不顯示	默認 140
"MediumTemp": 120,	Web 不顯示	默認 120
"MinLimitTemp": 100,	Web 不顯示	默認 100
"Rect": [	Web 不顯示	默認設置
7600,		
2000,		
7800,		
6000		

],		
"SaturationTemp": 150	Web 不顯示	默認 150
},		
"LowCTMakerColor": [	低溫色彩	HotSpotColorMode 手動模式下有效
0,		
0,		
255,		
0		
],		
"ObjectDistance": 5,	目標距離整數位元	0-10000（int）
"ObjectEmissivity": 0.980,	目標輻射係數	0-1（float）
"RainFallCapacity": 0,	Web 不顯示	默認 0
"ReflectedTemperature": 23,	目標反射溫度	-50-327.7（float）
"RelativeHumidity": 60,	Web 不顯示	默認 60
"TempCorrectGuideB0": 0,	Web 不顯示	默認 0
"TempCorrectGuideKf": 100,	Web 不顯示	默認 100
"TempRangeMode": "High",	增益	"High":高增益(窄溫度範圍) "Low":低增益(寬溫度範圍)
"TemperEnable": true,	開關測溫使能	true 開啟 false 關閉
"TemperStatisticsEnable": true,	溫度統計使能	true 開啟 false 關閉
"TemperatureUnit": "Centigrade",	溫度單位	"Centigrade"：攝氏度 "Fahrenheit":華氏度
"Visibility": 20	Web 不顯示	默認 20
}		
},		

Sample	Description	Value
"result": true,	請求結果	true 成功 false 失敗
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

3.1.2 設置全域配置

設置全部配置資訊，具體功能以 **web** 介面顯示為准。設置時 **web** 沒有的參數，按照獲取預設值設置。

RPC Request: http://192.168.1.108/RPC2		
Sample	**Description**	**Value**
{		
"method": "configManager.setConfig",		
"params": {		
"name": "HeatImagingThermometry",	配置名稱	
"table": {		
"Altitude": 100,	海拔高度	**Web** 不顯示
"AtmosphericTemperature": 23,	大氣溫度	**-50-327.7（float）**
"AtmosphericTransmissivity": 1,	大氣透過率	**0-1（float）**
"DistanceDecimalPart": 0.6,	目標距離小數位	**0-1（float）**
"FontResolutionRatio": 0,	字體	**web** 不顯示
"HeatMapFormat": "IR-SHEEN",	熱圖格式	**IR-SHEEN** 私有格式 **IR-SGCC** 國網格式 **IR-SGCC-FIR64** 國網 **fir** 格式
"HighCTMakerColor": [	高溫點色彩	**HotSpotColorMode** 手動模式下有效
255,		
0,		
0,		

0		
],		
"HotSpotColorMode": "Auto",	冷熱點顏色設置	Auto Manual
"HotSpotFollow": false,	冷熱點開關	true false
"HotSpotShape": "Circle",	冷熱點形狀	Web 不顯示
"Isotherm": {		
"ColorBarDisplay": true,	色標條顯示	true false
"Enable": false,	開關使能	Web 不顯示
"MaxLimitTemp": 140,	等溫線上限溫度值	Web 不顯示
"MediumTemp": 120,	等溫線中位元溫度值	Web 不顯示
"MinLimitTemp": 100,	等溫線下限溫度值	Web 不顯示
"Rect": [	色溫條矩形區域（OSD 位置）	使用相對座標體系，取值均為 0-8191
7600,		
2000,		
7800,		
6000		
],		
"SaturationTemp": 150	等溫線飽和溫度值	Web 不顯示
},		
"LowCTMakerColor": [	低溫色彩	HotSpotColorMode 手動模式下有效
0,		

0,		
255,		
0		
],		
"ObjectDistance": 5,	目標距離整數位元	0-10000（int）
"ObjectEmissivity": 0.98,	目標輻射係數	0-1（float）
"RainFallCapacity": 0,	降雨量	Web 不顯示
"ReflectedTemperature": 23,	目標反射溫度	-50-327.7（float）
"RelativeHumidity": 60,	相對濕度	Web 不顯示
"TempCorrectGuideB0": 0,	溫度修正標準因數	Web 不顯示
"TempCorrectGuideKf": 100,	溫度修正固定偏差	Web 不顯示
"TempRangeMode": "High",	增益	"High":高增益(窄溫度範圍) "Low":低增益(寬溫度範圍)
"TemperEnable": true,	開關測溫使能	true 開啟 false 關閉
"TemperStatisticsEnable": true,	溫度統計使能	true 開啟 false 關閉
"TemperatureUnit": "Centigrade",	溫度單位	"Centigrade"：攝氏度 "Fahrenheit":華氏度
"Visibility": 20	能見度	Web 不顯示
},		
"options": []		
},		
"id": 5,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的

}		

RPC Response:		
Sample	**Description**	**Value**
{		
"id": 5,	ID 號	請求 ID 一致
"params": {		
"options": null		
},		
"result": true,	請求結果	**true** 成功 **false** 失敗
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.1.3 全域示例

Step1：獲取全域配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "configManager.getConfig",
	  "params": {
	    "name": "HeatImagingThermometry"
	  },
	  "id": 4,
	  "session": 702512128
	  }

Step2:全域配置回復

RPCResponse	

Body	{
	  "id": 4,
	  "params": {
	    "table": {
	      "Altitude": 100,

"AtmosphericTemperature": 23,

"AtmosphericTransmissivity": 1,

"DistanceDecimalPart": 0.50,

"FontResolutionRatio": 0,

"HeatMapFormat": "IR-SHEEN",

"HighCTMakerColor": [

  200,

  0,

  255,

  0

],

"HotSpotColorMode": "Manual",

"HotSpotFollow": true,

"HotSpotShape": "Circle",

"Isotherm": {

  "ColorBarDisplay": true,

  "Enable": false,

  "MaxLimitTemp": 140,

  "MediumTemp": 120,

  "MinLimitTemp": 100,

  "Rect": [

    7600,

    2000,

    7800,

    6000

  ],

  "SaturationTemp": 150

},

"LowCTMakerColor": [

  93,

  214,

  33,

  0

],

"ObjectDistance": 5,

"ObjectEmissivity": 0.980,

"RainFallCapacity": 0,

"ReflectedTemperature": 23,

"RelativeHumidity": 60,

"TempCorrectGuideB0": 0,

"TempCorrectGuideKf": 100,

"TempRangeMode": "High",

"TemperEnable": false,

"TemperStatisticsEnable": false,

	"TemperatureUnit": "Centigrade",
	"Visibility": 20
	}
	},
	"result": true,
	"session": 702512128
	}

Step3：設置全域配置

Web 不顯示參數，按照獲取值來設置或者示例給出的預設值

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "configManager.setConfig",
	  "params": {
	    "name": "HeatImagingThermometry",
	    "table": {
	      "Altitude": 100,
	      "AtmosphericTemperature": 23,
	      "AtmosphericTransmissivity": 1,
	      "DistanceDecimalPart": 0.6,
	      "FontResolutionRatio": 0,
	      "HeatMapFormat": "IR-SHEEN",
	      "HighCTMakerColor": [
	        255,
	        0,
	        0,
	        0
	      ],
	      "HotSpotColorMode": "Auto",
	      "HotSpotFollow": false,
	      "HotSpotShape": "Circle",
	      "Isotherm": {
	        "ColorBarDisplay": true,
	        "Enable": false,
	        "MaxLimitTemp": 140,
	        "MediumTemp": 120,
	        "MinLimitTemp": 100,
	        "Rect": [
	          7600,
	          2000,
	          7800,
	          6000
	        ],

	"SaturationTemp": 150
	},
	"LowCTMakerColor": [
	0,
	0,
	255,
	0
	],
	"ObjectDistance": 5,
	"ObjectEmissivity": 0.98,
	"RainFallCapacity": 0,
	"ReflectedTemperature": 23,
	"RelativeHumidity": 60,
	"TempCorrectGuideB0": 0,
	"TempCorrectGuideKf": 100,
	"TempRangeMode": "High",
	"TemperEnable": true,
	"TemperStatisticsEnable": true,
	"TemperatureUnit": "Centigrade",
	"Visibility": 20
	},
	"options": []
	},
	"id": 5,
	"session": 702512128
	}

Step4:設置全域配置回復

RPCResponse	

Body	{
	　"id": 5,
	　"params": {
	　　"options": null
	　},
	　"result": true,
	　"session": 702512128
	}

3.2 規則設置

3.2.1 參數配置

3.2.1.1 獲取規則配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.getConfig",	獲取規則配置	
"params": {		
"name": "ThermometryRule"	配置名稱	
},		
"id": 6,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

如下按照點和線段規則示例，其中點位置座標為 3 維陣列，其他規則位置座標為 2 維陣列

RPC Response:		
Sample	Description	Value
{		
"id": 6,	ID 號	請求 ID 一致
"params": {		是一個二維陣列，第一維是通道號，第二為是測溫點規則，支援多通道多個類型測溫
"table": [		
[		
null		雙光設備 通道 1 單熱像設備不會有此陣列

],		
[		
{		
"AlarmSetting": [	報警設置	
{		
"AlarmCondition": "Above",	報警條件	Below　低於 Match　匹配 Above　高於
"Duration": 3,	閾值溫度持續時間	0-1000（int）
"Enable": true,	報警開關	true 開啟 false 關閉
"Hysteresis": 0.10,	溫度誤差	0-10（float）
"Id": 0,	報警編號	默認 0
"Result": "Value",	測溫報警結果	點測溫：Value 線測溫：Max,Min,Aver,Slope,Diff 區域測溫：Max,Min,Aver,Slope,Diff
"Threshold": 20	報警閾值溫度	-40-550(float)
}		
],		
"AreaSubType": "Polygon",	區域測溫的子類型	Rect　矩形 Ellipse　橢圓 Polygon 多邊形（點屬於多邊形） Line　線條
"Enable": true,	顯示開關	true 開啟 false 關閉
"LocalParameters": {	本地參數配置	結構體
"DistanceDecimalPart": 0.50,	目標距離小數位	0-1（float）
"Enable": false,	本地參數開關	true 開啟 false 關閉

"ObjectDistance": 5,	目標距離整數位元	0-10000（int）
"ObjectEmissivity": 0.980,	目標輻射係數	0-1（float）
"ReflectedTemp": 23	目標反射溫度	-50-327.7（float）
},		
"MeterRegion": {	測溫位置資訊	
"Coordinates": [	測溫點座標	使用相對座標體系，取值均為 0~8191
[		點座標三維陣列
[		
4278,		
3427		
]		
]		
]		
},		
"Name": "點 1",	規則名稱	
"PresetId": 0,	預置點編號	預置點代表一個場景，一個場景下有多個測溫規則。不同場景下的測溫規則編號可以相同。 0 代表無關聯，全域規則
"RuleId": 1,	規則編號	
"T": 3,	溫度採樣週期	無效參數默認 2S
"Type": "Spot"	測溫項類型	Spot 點測溫 Area 區域測溫 Line 線測溫
},		
{		
"AlarmSetting": [		

{		
"AlarmCondition": "Below",	報警條件	Below　低於 Match　匹配 Above　高於
"Duration": 30,	閾值溫度持續時間	0-1000（int）
"Enable": false,	報警開關	true 開啟 false 關閉
"Hysteresis": 0.10,	溫度誤差	0-10（float）
"Id": 0,	報警編號	默認 0
"Result": "Max",	測溫報警結果	點測溫：Value 線測溫：Max,Min,Aver,Slope,Diff 區域測溫：Max,Min,Aver,Slope,Diff
"Threshold": 20	報警閾值溫度	-40-550(float)
}		
],		
"AreaSubType": "Line",	區域測溫的子類型	Rect　矩形 Ellipse　橢圓 Polygon　多邊形（點屬於多邊形） Line　　線條
"Enable": true,	顯示開關	true 開啟 false 關閉
"LocalParameters": {	本地參數配置	結構體
"DistanceDecimalPart": 0.5,	目標距離小數位	0-1（float）
"Enable": false,	本地參數開關	true 開啟 false 關閉
"ObjectDistance": 5,	目標距離整數位元	0-10000（int）
"ObjectEmissivity": 0.980,	目標輻射係數	0-1（float）
"ReflectedTemp": 23	目標反射溫度	-50-327.7（float）

},		
"MeterRegion": {	測溫位置資訊	
"Coordinates": [	測溫點座標	使用相對座標體系，取值均為 0~8191
[		線座標二維陣列
1838,		
1872		
],		
[		
1838,		
7097		
]		
]		
},		
"Name": "線條 1",	規則名稱	
"PresetId": 1,	預置點編號	預置點代表一個場景，一個場景下有多個測溫規則。不同場景下的測溫規則編號可以相同。 0 代表無關聯，全域規則
"RuleId": 1,	規則編號	
"T": 3,	溫度採樣週期	無效參數默認 2S
"Type": "Line"	測溫項類型	Spot 點測溫 Area 區域測溫 Line 線測溫
}		
]		
]		
},		
"result": true,	請求結果	true 成功

		false 失敗
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.2.1.2 設置規則配置

設置規則須知：

1.沒有刪除規則指令，設置為空相當於全部刪除；

2.新增規則時舊規則需獲取一起重新設置；

3.刪除其中一條時，重新設置除刪除外的所有規則；

5.同一畫面最多顯示 12 條測溫規則

無關聯+預置點=12　例：如果無關聯有 2 個規則，每個預置點下最多設置 10 個規則；

6.多邊型規則最多為 7 個點（擴展需定制）；

示例為設置矩形規則。

RPC Request: http://192.168.1.108/RPC2		
Sample	**Description**	**Value**
{		
"method": "configManager.setConfig",		
"params": {		
"name": "ThermometryRule",	配置名稱	
"table": [		
[null],		雙光設備 通道 1 單熱像設備不會有此陣列
[{		
"AlarmSetting": [{		
"AlarmCondition": "Below",	報警條件	Below　低於 Match　匹配 Above　高於
"Duration": 30,	閾值溫度持續時間	0-1000（int）
"Enable": false,	報警開關	true 開啟 false 關閉

"Hysteresis": 0.1,	溫度誤差	0-10（float）
"Id": 0,	報警編號	默認 0
"Result": "Max",	測溫報警結果	點測溫：Value 線測溫：Max,Min,Aver,Slope,Diff 區域測溫：Max,Min,Aver,Slope,Diff
"Threshold": 20	報警閾值溫度	-40-550(float)
}],		
"AreaSubType": "Rect",	區域測溫的子類型	Rect 矩形 Ellipse 橢圓 Polygon 多邊形（點屬於多邊形） Line 線條
"Enable": true,	顯示開關	true 開啟 false 關閉
"LocalParameters": {	本地參數配置	結構體
"DistanceDecimalPart": 0.5,	目標距離小數位	0-1（float）
"Enable": false,	本地參數開關	true 開啟 false 關閉
"ObjectDistance": 5,	目標距離整數位元	0-10000（int）
"ObjectEmissivity": 0.98,	目標輻射係數	0-1（float）
"ReflectedTemp": 23	目標反射溫度	-50-327.7（float）
},		
"MeterRegion": {	測溫點座標	使用相對座標體系，取值均為 0~8191
"Coordinates": [		矩形二維陣列
[3185, 2309],		
[4915, 2309],		
[4915, 3962],		
[3185, 3962]		

Sample	Description	Value
]		
},		
"Name": "矩形 1",	規則名稱	
"PresetId": 1,	預置點編號	預置點代表一個場景，一個場景下有多個測溫規則。不同場景下的測溫規則編號可以相同。 0 代表無關聯，全域規則
"RuleId": 1,	規則編號	
"T": 3,	溫度採樣週期	無效參數默認 2S
"Type": "Area"	測溫項類型	Spot 點測溫 Area 區域測溫 Line 線測溫
}]		
],		
"options": []		
},		
"id": 5,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

RPC Response:		
Sample	Description	Value
{		
"id": 5,	ID 號	請求 ID 一致
"params": {		
"options": null		
},		
"result": true,	請求結果	true 成功

		false 失敗
"session": 694130648	登錄權杖	第一次的登錄獲取的
}		

3.2.1.3 規則示例

Step1：獲取規則配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "configManager.getConfig",
	  "params": {
	    "name": "ThermometryRule"
	  },
	  "id": 6,
	  "session": 702512128
	}

Step2：規則配置返回，規則為預置點 1 下的矩形

RPCResponse	

Body	{
	  "id": 6,
	  "params": {
	    "table": [
	      [
	        null
	      ],
	      [
	        {
	          "AlarmSetting": [
	            {
	              "AlarmCondition": "Below",
	              "Duration": 30,
	              "Enable": false,
	              "Hysteresis": 0.10,
	              "Id": 0,
	              "Result": "Max",
	              "Threshold": 20
	            }
	          ],
	          "AreaSubType": "Rect",

```
        "Enable": true,
        "LocalParameters": {
          "DistanceDecimalPart": 0.5999999999999996,
          "Enable": false,
          "ObjectDistance": 5,
          "ObjectEmissivity": 0.980,
          "ReflectedTemp": 23
        },
        "MeterRegion": {
          "Coordinates": [
            [
              3185,
              2309
            ],
            [
              4915,
              2309
            ],
            [
              4915,
              3962
            ],
            [
              3185,
              3962
            ]
          ]
        },
        "Name": "矩形 1",
        "PresetId": 1,
        "RuleId": 1,
        "T": 3,
        "Type": "Area"
      }
    ]
  ]
},
"result": true,
"session": 702512128
}
```

Step3：删除預置點 1 矩形規則+設置無關聯下的點規則

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],
	            [
	                {
	                    "Enable": true,
	                    "PresetId": 0,
	                    "RuleId": 1,
	                    "Name": "點 1",
	                    "Type": "Spot",
	                    "AreaSubType": "Polygon",
	                    "MeterRegion": {
	                        "Coordinates": []
	                    },
	                    "T": 3,
	                    "AlarmSetting": [
	                      {
	                        "Id": 0,
	                        "Enable": false,
	                        "Result": "Value",
	                        "AlarmCondition": "Below",
	                        "Threshold": 20,
	                        "Hysteresis": 0.1,

<table>
<tr><td></td><td>

```
                                    "Duration": 30
                                }
                            ],
                            "LocalParameters": {
                                "Enable": false,
                                "ObjectEmissivity": 0.98,
                                "ObjectDistance": 5,
                                "DistanceDecimalPart": 0.5,
                                "ReflectedTemp": 23
                            }
                        }
                    ]
                ],
                "options": []
        },
        "id": 224,
        "session": 702512128
        }
```

</td></tr>
</table>

Step4：新增無關聯的線規則

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],

```
[
    {
        "AlarmSetting": [
            {
                "AlarmCondition": "Below",
                "Duration": 30,
                "Enable": false,
                "Hysteresis": 0.1,
                "Id": 0,
                "Result": "Value",
                "Threshold": 20
            }
        ],
        "AreaSubType": "Polygon",
        "Enable": true,
        "LocalParameters": {
            "DistanceDecimalPart": 0.5,
            "Enable": false,
            "ObjectDistance": 5,
            "ObjectEmissivity": 0.98,
            "ReflectedTemp": 23
        },
        "MeterRegion": {
            "Coordinates": [
                [
                    [
                        4714,
                        6003
                    ]
                ]
            ]
        },
        "Name": "點 1",
        "PresetId": 0,
        "RuleId": 1,
        "T": 3,
        "Type": "Spot"
    },
    {
        "Enable": true,
        "PresetId": 0,
        "RuleId": 2,
        "Name": "線條 1",
        "Type": "Line",
```

```json
                    "AreaSubType": "Line",
                    "MeterRegion": {
                        "Coordinates": [
                            [
                                3076,
                                2455
                            ],
                            [
                                5770,
                                5201
                            ]
                        ]
                    },
                    "T": 3,
                    "AlarmSetting": [
                        {
                            "Id": 0,
                            "Enable": false,
                            "Result": "Max",
                            "AlarmCondition": "Below",
                            "Threshold": 20,
                            "Hysteresis": 0.1,
                            "Duration": 30
                        }
                    ],
                    "LocalParameters": {
                        "Enable": false,
                        "ObjectEmissivity": 0.98,
                        "ObjectDistance": 5,
                        "DistanceDecimalPart": 0.5,
                        "ReflectedTemp": 23
                    }
                }
            ]
        ],
        "options": []
    },
    "id": 244,
    "session":702512128
}
```

Step5：新增預置點 1 下的矩形規則

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],
	            [
	                {
	                    "AlarmSetting": [
	                        {
	                            "AlarmCondition": "Below",
	                            "Duration": 30,
	                            "Enable": false,
	                            "Hysteresis": 0.1,
	                            "Id": 0,
	                            "Result": "Value",
	                            "Threshold": 20
	                        }
	                    ],
	                    "AreaSubType": "Polygon",
	                    "Enable": true,
	                    "LocalParameters": {
	                        "DistanceDecimalPart": 0.5,
	                        "Enable": false,
	                        "ObjectDistance": 5,
	                        "ObjectEmissivity": 0.98,

```json
                    "ReflectedTemp": 23
                },
                "MeterRegion": {
                    "Coordinates": [
                        [
                            [
                                4714,
                                6003
                            ]
                        ]
                    ]
                },
                "Name": "點 1",
                "PresetId": 0,
                "RuleId": 1,
                "T": 3,
                "Type": "Spot"
            },
            {
                "Enable": true,
                "PresetId": 0,
                "RuleId": 2,
                "Name": "線條 1",
                "Type": "Line",
                "AreaSubType": "Line",
                "MeterRegion": {
                    "Coordinates": [
                        [
                            3076,
                            2455
                        ],
                        [
                            5770,
                            5201
                        ]
                    ]
                },
                "T": 3,
                "AlarmSetting": [
                    {
                        "Id": 0,
                        "Enable": false,
                        "Result": "Max",
                        "AlarmCondition": "Below",
```

```json
                    "Threshold": 20,
                    "Hysteresis": 0.1,
                    "Duration": 30
                }
            ],
            "LocalParameters": {
                "Enable": false,
                "ObjectEmissivity": 0.98,
                "ObjectDistance": 5,
                "DistanceDecimalPart": 0.5,
                "ReflectedTemp": 23
            }
        },
        {
            "Enable": true,
            "PresetId": 1,
            "RuleId": 1,
            "Name": "矩形 1",
            "Type": "Area",
            "AreaSubType": "Rect",
            "MeterRegion": {
                "Coordinates": [
                    [
                        1292,
                        4667
                    ],
                    [
                        2876,
                        4667
                    ],
                    [
                        2876,
                        6052
                    ],
                    [
                        1292,
                        6052
                    ]
                ]
            },
            "T": 3,
            "AlarmSetting": [
                {
                    "Id": 0,
```

                                    "Enable": false,
                                    "Result": "Max",
                                    "AlarmCondition": "Below",
                                    "Threshold": 20,
                                    "Hysteresis": 0.1,
                                    "Duration": 30
                                }
                            ],
                            "LocalParameters": {
                                "Enable": false,
                                "ObjectEmissivity": 0.98,
                                "ObjectDistance": 5,
                                "DistanceDecimalPart": 0.5,
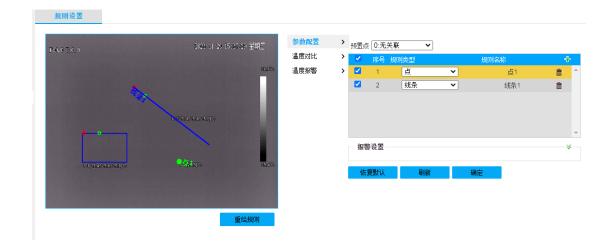   "ReflectedTemp": 23
                            }
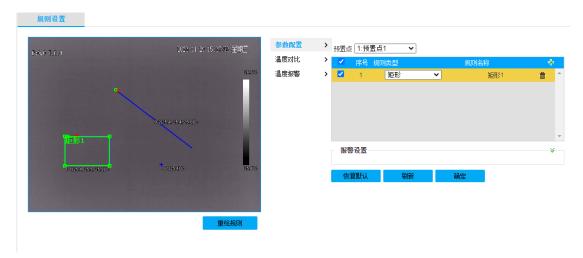   }
                    ]
                ],
                "options": []
            },
            "id": 257,
            "session": 702512128
}

Step6：更改預置點 **1** 的矩形為多邊形規則

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],
	            [
	                {
	                    "AlarmSetting": [
	                        {
	                            "AlarmCondition": "Below",
	                            "Duration": 30,
	                            "Enable": false,
	                            "Hysteresis": 0.1,
	                            "Id": 0,
	                            "Result": "Value",
	                            "Threshold": 20
	                        }
	                  ],
	                "AreaSubType": "Polygon",
	                "Enable": true,
	                "LocalParameters": {
	                    "DistanceDecimalPart": 0.5,
	                    "Enable": false,
	                    "ObjectDistance": 5,
	                    "ObjectEmissivity": 0.98,
	                    "ReflectedTemp": 23

        },
        "MeterRegion": {
            "Coordinates": [
                [
                    [
                        4714,
                        6003
                    ]
                ]
            ]
        },
        "Name": "點 1",
        "PresetId": 0,
        "RuleId": 1,
        "T": 3,
        "Type": "Spot"
    },
    {
        "Enable": true,
        "PresetId": 0,
        "RuleId": 2,
        "Name": "線條 1",
        "Type": "Line",
        "AreaSubType": "Line",
        "MeterRegion": {
            "Coordinates": [
                [
                    3076,
                    2455
                ],
                [
                    5770,
                    5201
                ]
            ]
        },
        "T": 3,
        "AlarmSetting": [
            {
                "Id": 0,
                "Enable": false,
                "Result": "Max",
                "AlarmCondition": "Below",
                "Threshold": 20,

```
                    "Hysteresis": 0.1,
                    "Duration": 30
                }
            ],
            "LocalParameters": {
                "Enable": false,
                "ObjectEmissivity": 0.98,
                "ObjectDistance": 5,
                "DistanceDecimalPart": 0.5,
                "ReflectedTemp": 23
            }
        },
        {
            "Enable": true,
            "PresetId": 1,
            "RuleId": 1,
            "Name": "多邊形 1",
            "Type": "Area",
            "AreaSubType": "Polygon",
            "MeterRegion": {
                "Coordinates": [
                    [
                        5042,
                        1240
                    ],
                    [
                        4460,
                        2017
                    ],
                    [
                        4969,
                        3111
                    ],
                    [
                        5788,
                        2844
                    ],
                    [
                        5570,
                        2042
                    ],
                    [
                        6061,
                        1750
```

```
                    ]
                ]
            },
            "T": 3,
            "AlarmSetting": [
                {
                    "Id": 0,
                    "Enable": false,
                    "Result": "Max",
                    "AlarmCondition": "Below",
                    "Threshold": 20,
                    "Hysteresis": 0.1,
                    "Duration": 30
                }
            ],
            "LocalParameters": {
                "Enable": false,
                "ObjectEmissivity": 0.98,
                "ObjectDistance": 5,
                "DistanceDecimalPart": 0.5,
                "ReflectedTemp": 23
            }
        }
    ]
    ],
    "options": []
},
"id": 266,
"session": 702512128
}
```

Step7：新增預置點 1 的矩形規則+橢圓規則

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],
	            [
	                {
	                    "AlarmSetting": [
	                        {
	                            "AlarmCondition": "Below",
	                            "Duration": 30,
	                            "Enable": false,
	                            "Hysteresis": 0.1,
	                            "Id": 0,
	                            "Result": "Value",
	                            "Threshold": 20
	                        }
	                    ],
	                    "AreaSubType": "Polygon",
	                    "Enable": true,
	                    "LocalParameters": {
	                        "DistanceDecimalPart": 0.5,
	                        "Enable": false,
	                        "ObjectDistance": 5,
	                        "ObjectEmissivity": 0.98,
	                        "ReflectedTemp": 23

```
                    },
                    "MeterRegion": {
                        "Coordinates": [
                            [
                                [
                                    4714,
                                    6003
                                ]
                            ]
                        ]
                    },
                    "Name": "點 1",
                    "PresetId": 0,
                    "RuleId": 1,
                    "T": 3,
                    "Type": "Spot"
                },
                {
                    "AlarmSetting": [
                        {
                            "AlarmCondition": "Below",
                            "Duration": 30,
                            "Enable": false,
                            "Hysteresis": 0.1,
                            "Id": 0,
                            "Result": "Max",
                            "Threshold": 20
                        }
                    ],
                    "AreaSubType": "Line",
                    "Enable": true,
                    "LocalParameters": {
                        "DistanceDecimalPart": 0.5,
                        "Enable": false,
                        "ObjectDistance": 5,
                        "ObjectEmissivity": 0.98,
                        "ReflectedTemp": 23
                    },
                    "MeterRegion": {
                        "Coordinates": [
                            [
                                3076,
                                2455
                            ],
```

```
                    [
                        5770,
                        5201
                    ]
                ]
            },
            "Name": "線條 1",
            "PresetId": 0,
            "RuleId": 2,
            "T": 3,
            "Type": "Line"
        },
        {
            "AlarmSetting": [
                {
                    "AlarmCondition": "Below",
                    "Duration": 30,
                    "Enable": false,
                    "Hysteresis": 0.1,
                    "Id": 0,
                    "Result": "Max",
                    "Threshold": 20
                }
            ],
            "AreaSubType": "Polygon",
            "Enable": true,
            "LocalParameters": {
                "DistanceDecimalPart": 0.5,
                "Enable": false,
                "ObjectDistance": 5,
                "ObjectEmissivity": 0.98,
                "ReflectedTemp": 23
            },
            "MeterRegion": {
                "Coordinates": [
                    [
                        5042,
                        1240
                    ],
                    [
                        4460,
                        2017
                    ],
                    [
```

```
                    4969,
                    3111
                ],
                [
                    5788,
                    2844
                ],
                [
                    5570,
                    2042
                ],
                [
                    6061,
                    1750
                ]
            ]
        },
        "Name": "多邊形 1",
        "PresetId": 1,
        "RuleId": 1,
        "T": 3,
        "Type": "Area"
    },
    {
        "AlarmSetting": [
            {
                "AlarmCondition": "Below",
                "Duration": 30,
                "Enable": false,
                "Hysteresis": 0.1,
                "Id": 0,
                "Result": "Max",
                "Threshold": 20
            }
        ],
        "AreaSubType": "Rect",
        "Enable": true,
        "LocalParameters": {
            "DistanceDecimalPart": 0.5,
            "Enable": false,
            "ObjectDistance": 5,
            "ObjectEmissivity": 0.98,
            "ReflectedTemp": 23
        },
```

```json
                    "MeterRegion": {
                        "Coordinates": [
                            [
                                1165,
                                3135
                            ],
                            [
                                2439,
                                3135
                            ],
                            [
                                2439,
                                4545
                            ],
                            [
                                1165,
                                4545
                            ]
                        ]
                    },
                    "Name": "矩形 1",
                    "PresetId": 1,
                    "RuleId": 2,
                    "T": 3,
                    "Type": "Area"
                },
                {
                    "AlarmSetting": [
                        {
                            "AlarmCondition": "Below",
                            "Duration": 30,
                            "Enable": false,
                            "Hysteresis": 0.1,
                            "Id": 0,
                            "Result": "Max",
                            "Threshold": 20
                        }
                    ],
                    "AreaSubType": "Ellipse",
                    "Enable": true,
                    "LocalParameters": {
                        "DistanceDecimalPart": 0.5,
                        "Enable": false,
                        "ObjectDistance": 5,
```

```json
                    "ObjectEmissivity": 0.98,
                    "ReflectedTemp": 23
                },
                "MeterRegion": {
                    "Coordinates": [
                        [
                            2093,
                            5882
                        ],
                        [
                            4114,
                            5882
                        ],
                        [
                            4114,
                            7243
                        ],
                        [
                            2093,
                            7243
                        ]
                    ]
                },
                "Name": "橢圓 1",
                "PresetId": 1,
                "RuleId": 3,
                "T": 3,
                "Type": "Area"
            }
        ]
    ],
    "options": []
},
"id": 295,
"session": 702512128
}
```

Step8：刪除所有規則（設為空）

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	        "name": "ThermometryRule",
	        "table": [
	            [
	                null
	            ],
	            []
	        ],
	        "options": []
	    },
	    "id": 305,
	    "session": 702512128
	}

Step9：設置規則返回（每次設置都會返回）

RPCResponse	

Body	{
	  "id": 244,
	  "params": {
	    "options": null
	  },
	  "result": true,
	  "session": 702512128
	}

3.2.2 溫度對比

3.2.2.1 獲取溫度對比配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.getConfig",	獲取溫度配置	
"params": {		
"name": "TemperatureDifferenceOSD"	配置名稱	
},		
"id": 8,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

如下按照點和線段規則對比示例

RPC Response:		
Sample	Description	Value
{		
"id": 8,	ID 號	請求 ID 一致

"params": {		
"table": [		
{	通道 1	雙光設備 通道 1 單熱像設備不會有此陣列
"EncodeBlend": false,		
"Info": null		
},		
{	通道 2	
"EncodeBlend": true,	預設值	默認為 true
"Info": [		
{		
"AlarmCondition": "Below",	報警條件	Below 低於 Match 匹配 Above 高於
"Enable": true,	預設值	默認為 true
"Id": 0,	溫度對比序號	0-1（int）
"Mode": "Max",	兩個規則的溫差計算模式,當測溫規則類型為點測溫時,其三種模式都相同	Aver-平均 Min-最小 Max-最大
"PresetId": 0,	預置點號	
"RuleId1": 1,	測溫規則 1	
"RuleId2": 2,	測溫規則 2	
"Threshold": 20	報警閾值溫度值	0-1000（float）
}		
]		
}		

]		
},		
"result": true,	請求結果	true 成功 false 失敗
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

3.2.2.2 設置溫度對比配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.setConfig",	設置溫度對比	
"params": {		
"name": "TemperatureDifferenceOSD",	配置名稱	
"table": [		
{		
"EncodeBlend": false,		雙光默認設置
"Info": null		
},		
{		
"EncodeBlend": true,		默認設置
"Info": [		
{		
"Enable": true,		默認設置
"Id": 0,	溫度對比序號	0-1（int）

"PresetId": 0,	預置點號	
"RuleId1": 1,	測溫規則 1	
"RuleId2": 2,	測溫規則 2	
"Mode": "Aver",	兩個規則的溫差計算模式,當測溫規則類型為點測溫時,其三種模式都相同	Aver-平均 Min-最小 Max-最大
"AlarmCondition": "Below",	報警條件	Below　低於 Match　匹配 Above　高於
"Threshold": 20	報警閾值溫度值	0-1000（float）
}		
]		
}		
],		
"options": []		
},		
"id": 9,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

RPC Response:		
Sample	Description	Value
{		
"id": 9,	ID 號	請求 ID 一致
"params": {		
"options": null	保活時間	固定為 60S

},		
"result": true,	登錄結果	
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.2.2.3 溫度對比示例

Step1：獲取溫度對比配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	　"method": "configManager.getConfig",
	　"params": {
	　　"name": "TemperatureDifferenceOSD"
	　},
	　"id": 8,
	　"session": 702512128
	}

Step2：溫度對比配置返回

RPCResponse	

Body	{
	　"id": 8,
	　"params": {
	　　"table": [
	　　　{
	　　　　"EncodeBlend": false,
	　　　　"Info": null
	　　　},
	　　　{
	　　　　"EncodeBlend": true,
	　　　　"Info": [
	　　　　　{
	　　　　　　"AlarmCondition": "Below",
	　　　　　　"Enable": true,
	　　　　　　"Id": 0,
	　　　　　　"Mode": "Aver",
	　　　　　　"PresetId": 0,
	　　　　　　"RuleId1": 1,

```
                    "RuleId2": 2,
                    "Threshold": 20
                  }
                ]
              }
            ]
          },
        "result": true,
        "session": 702512128
      }
```

Step3：刪除溫度對比配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	```{
	  "method": "configManager.setConfig",
	  "params": {
	    "name": "TemperatureDifferenceOSD",
	    "table": [
	      {
	        "EncodeBlend": false,
	        "Info": null
	      },
	      {
	        "EncodeBlend": true,
	        "Info": []
	      }
	    ],
	    "options": []
	  },
	  "id": 9,
	  "session": 702512128
	}```

Step4：設置溫度對比配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	```{
	  "method": "configManager.setConfig",
	  "params": {
	    "name": "TemperatureDifferenceOSD",
	    "table": [
	      {
	        "EncodeBlend": false,```

```
            "Info": null
          },
          {
            "EncodeBlend": true,
            "Info": [
              {
                "Enable": true,
                "Id": 0,
                "PresetId": 0,
                "RuleId1": 1,
                "RuleId2": 2,
                "Mode": "Aver",
                "AlarmCondition": "Below",
                "Threshold": 20
              }
            ]
          }
        ],
        "options": []
      },
      "id": 9,
      "session": 702512128
    }
```

Step5：設置溫度對比配置返回

RPCResponse	

Body	`{`
	`  "id": 9,`
	`  "params": {`
	`    "options": null`
	`  },`
	`  "result": true,`
	`  "session": 702512128`
	`}`

3.2.3 溫度報警

3.2.3.1 獲取溫度報警配置

RPC Request: http://192.168.1.108/RPC2

Sample	Description	Value
{		
"method": "configManager.getConfig",	獲取配置	
"params": {		
"name": "HeatImagingTemper"	配置名稱	
},		
"id": 10,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

返回全部配置資訊，具體功能以 web 介面顯示為准。設置時 web 沒有的參數，按照獲取預設值設置。

RPC Response:		
Sample	**Description**	**Value**
{		
"id": 10,	ID 號	請求 ID 一致
"params": {		
"table": [		
{		雙光設備 通道 1 溫度報警中設置無效
"Enable": false,		
"EventHandler": {		
"AlarmOutChannels": [		
0		
],		
"AlarmOutEnable": false,		
"AlarmOutLatch": 10,		
"BeepEnable": false,		

"Dejitter": 0,		
"Delay": 30,		
"ExAlarmOutChannels": [		
0		
],		
"ExAlarmOutEnable": false,		
"LogEnable": false,		
"MMSEnable": false,		
"MailEnable": false,		
"MatrixChannels": [		
0		
],		
"MatrixEnable": false,		
"MessageEnable": false,		
"OnVideoMessageEnable": false,		
"PtzLink": [		
[		
"None",		
0,		
0,		
0,		
0		
]		
],		
"PtzLinkEnable": false,		

"RecordChannels": [		
0,		
1		
],		
"RecordEnable": false,		
"RecordLatch": 10,		
"Snapshot": 1,		
"SnapshotChannels": [		
0,		
1		
],		
"SnapshotEnable": true,		
"SnapshotPeriod": 0,		
"SnapshotTimes": 1,		
"SnapshotTitleEnable": true,		
"TimeSection": [		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		

"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		

```
        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ],

    [

        "1 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ],

    [

        "1 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ]

    ],

    "TourChannels": [

        0
```

],		
"TourEnable": false,		
"VoiceEnable": false		
}		
},		
{		雙光設備 通道 2
"Enable": false,	報警使能	true 開啟 false 關閉
"EventHandler": {	報警聯動	
"AlarmOutChannels": [	報警輸出通道	默認為 0
0		
],		
"AlarmOutEnable": false,	報警輸出	true 開啟 false 關閉
"AlarmOutLatch": 10,	報警延時	10-300（int）
"BeepEnable": false,	Web 不顯示	默認為 false
"Dejitter": 0,	去抖動	默認為 0
"Delay": 30,	Web 不顯示	默認為 30
"ExAlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"ExAlarmOutEnable": false,	Web 不顯示	默認為 false
"LogEnable": false,	Web 不顯示	默認為 false
"MMSEnable": false,	Web 不顯示	默認為 false
"MailEnable": false,	聯動郵件	true 開啟 false 關閉
"MatrixChannels": [	Web 不顯示	默認為 0

0		
],		
"MatrixEnable": false,	Web 不顯示	默認為 false
"MessageEnable": false,	Web 不顯示	默認為 false
"OnVideoMessageEnable": false,	Web 不顯示	默認為 false
"PtzLink": [	聯動雲台	
[		
"None",	聯動操作	None 無 Preset 預置點 Tour 巡航組 Pattern 巡跡 Pause 暫停
0,	聯動序號	不同聯動操作範圍不一致 以 web 介面顯示為准
0,	聯動時間	0-300（int）
0,	Web 不顯示	默認為 0
0	Web 不顯示	默認為 0
]		
],		
"PtzLinkEnable": false,	聯動雲台使能	true 開啟 false 關閉
"RecordChannels": [	聯動錄影通道	0 可見光 1 熱像
0,		
1		
],		
"RecordEnable": false,	聯動錄影	true 開啟 false 關閉
"RecordLatch": 10,	錄影延時	0-300（int）

"Snapshot": 1,	Web 不顯示	默認為 1
"SnapshotChannels": [	聯動抓圖通道	0 可見光 1 熱像
0,		
1		
],		
"SnapshotEnable": true,	聯動抓圖	true 開啟 false 關閉
"SnapshotPeriod": 0,	Web 不顯示	默認為 0
"SnapshotTimes": 1,	Web 不顯示	默認為 1
"SnapshotTitleEnable": true,	Web 不顯示	默認為 true
"TimeSection": [	布撤防時間段	
[		星期天布撤防時間。 為 1 表示 生效時間段 一天可以設置 6 個時間段 時間段之間不能有交叉
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期一布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期二布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期三布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期四布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59"		
],		
[		星期五布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期六布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
],		
"TourChannels": [	Web 不顯示	默認為 0
0		
],		
"TourEnable": false,	Web 不顯示	默認為 false
"VoiceEnable": false	Web 不顯示	默認為 false
}		

}		
]		
},		
"result": true,	獲取結果	
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.2.3.2 設置溫度報警配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"id": 10,	ID 號	請求 ID 一致
"params": {		
"table": [		
{		雙光設備 通道 1 溫度報警中設置無效
"Enable": false,		
"EventHandler": {		
"AlarmOutChannels": [		
0		
],		
"AlarmOutEnable": false,		
"AlarmOutLatch": 10,		
"BeepEnable": false,		
"Dejitter": 0,		
"Delay": 30,		

"ExAlarmOutChannels": [

0

],

"ExAlarmOutEnable": false,

"LogEnable": false,

"MMSEnable": false,

"MailEnable": false,

"MatrixChannels": [

0

],

"MatrixEnable": false,

"MessageEnable": false,

"OnVideoMessageEnable": false,

"PtzLink": [

[

"None",

0,

0,

0,

0

]

],

"PtzLinkEnable": false,

"RecordChannels": [

0,

                1

            ],

            "RecordEnable": false,

            "RecordLatch": 10,

            "Snapshot": 1,

            "SnapshotChannels": [

                0,

                1

            ],

            "SnapshotEnable": true,

            "SnapshotPeriod": 0,

            "SnapshotTimes": 1,

            "SnapshotTitleEnable": true,

            "TimeSection": [

                [

                    "1 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59"

                ],

                [

                    "1 00:00:00-23:59:59",

                    "0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
],		
"TourChannels": [		
0		
],		
"TourEnable": false,		

"VoiceEnable": false		
}		
},		
{		雙光設備 通道 2
"Enable": false,	報警使能	true 開啟 false 關閉
"EventHandler": {	報警聯動	
"AlarmOutChannels": [	報警輸出通道	默認為 0
0		
],		
"AlarmOutEnable": false,	報警輸出	true 開啟 false 關閉
"AlarmOutLatch": 10,	報警延時	10-300（int）
"BeepEnable": false,	Web 不顯示	默認為 false
"Dejitter": 0,	去抖動	默認為 0
"Delay": 30,	Web 不顯示	默認為 30
"ExAlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"ExAlarmOutEnable": false,	Web 不顯示	默認為 false
"LogEnable": false,	Web 不顯示	默認為 false
"MMSEnable": false,	Web 不顯示	默認為 false
"MailEnable": false,	聯動郵件	true 開啟 false 關閉
"MatrixChannels": [	Web 不顯示	默認為 0
0		
],		

"MatrixEnable": false,	Web 不顯示	默認為 false
"MessageEnable": false,	Web 不顯示	默認為 false
"OnVideoMessageEnable": false,	Web 不顯示	默認為 false
"PtzLink": [	聯動雲台	
[		
"None",	聯動操作	None 無 Preset 預置點 Tour 巡航組 Pattern 巡跡 Pause 暫停
0,	聯動序號	不同聯動操作範圍不一致 以 web 介面顯示為准
0,	聯動時間	0-300（int）
0,	Web 不顯示	默認為 false
0	Web 不顯示	默認為 false
]		
],		
"PtzLinkEnable": false,	聯動雲台使能	true 開啟 false 關閉
"RecordChannels": [	聯動錄影通道	0 可見光 1 熱像
0,		
1		
],		
"RecordEnable": false,	聯動錄影	true 開啟 false 關閉
"RecordLatch": 10,	錄影延時	0-300（int）
"Snapshot": 1,	Web 不顯示	默認為 1
"SnapshotChannels": [	聯動抓圖通道	0 可見光

		1 熱像
0,		
1		
],		
"SnapshotEnable": true,	聯動抓圖	true 開啟 false 關閉
"SnapshotPeriod": 0,	Web 不顯示	默認為 0
"SnapshotTimes": 1,	Web 不顯示	默認為 1
"SnapshotTitleEnable": true,	Web 不顯示	默認為 true
"TimeSection": [	布撤防時間段	
[		星期天布撤防時間 為 1 表示 生效時間段 一天可以設置 6 個時間段 時間段之間不能有交叉
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期一布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59"		
],		
[		星期二布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期三布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期四布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		

],		
[		星期五布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期六布撤防時間
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
],		
"TourChannels": [	Web 不顯示	默認為 0
0		
],		
"TourEnable": false,	Web 不顯示	默認為 false
"VoiceEnable": false	Web 不顯示	默認為 false
}		
}		

]		
},		
"result": true,	獲取結果	
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

RPC Response:		
Sample	Description	Value
{		
"id": 11,	ID 號	請求 ID 一致
"params": {		
"options": null		
},		
"result": true,	請求結果	true 成功 false 失敗
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.2.3.3 溫度報警示例

Step1：獲取溫度報警配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "configManager.getConfig",
	  "params": {
	    "name": "HeatImagingTemper"
	  },
	  "id": 10,
	  "session": 702512128
	}

Step2：溫度報警配置返回

RPCResponse	

Body	{
	  "id": 10,
	  "params": {
	    "table": [
	      {
	        "Enable": false,
	        "EventHandler": {
	          "AlarmOutChannels": [
	            0
	          ],
	          "AlarmOutEnable": false,
	          "AlarmOutLatch": 10,
	          "BeepEnable": false,
	          "Dejitter": 0,
	          "Delay": 30,
	          "ExAlarmOutChannels": [
	            0
	          ],
	          "ExAlarmOutEnable": false,
	          "LogEnable": false,
	          "MMSEnable": false,
	          "MailEnable": false,
	          "MatrixChannels": [
	            0
	          ],
	          "MatrixEnable": false,
	          "MessageEnable": false,
	          "OnVideoMessageEnable": false,
	          "PtzLink": [
	            [
	              "None",
	              0,
	              0,
	              0,
	              0
	            ]
	          ],
	          "PtzLinkEnable": false,
	          "RecordChannels": [
	            0,
	            1
	          ],

```json
"RecordEnable": false,
"RecordLatch": 10,
"Snapshot": 1,
"SnapshotChannels": [
  0,
  1
],
"SnapshotEnable": true,
"SnapshotPeriod": 0,
"SnapshotTimes": 1,
"SnapshotTitleEnable": true,
"TimeSection": [
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
```

```
          [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ]
        ],
        "TourChannels": [
          0
        ],
        "TourEnable": false,
        "VoiceEnable": false
    }
  },
  {
    "Enable": true,
    "EventHandler": {
      "AlarmOutChannels": [
        0
      ],
      "AlarmOutEnable": true,
      "AlarmOutLatch": 10,
      "BeepEnable": false,
      "Dejitter": 0,
      "Delay": 30,
      "ExAlarmOutChannels": [
```

```
        0
      ],
      "ExAlarmOutEnable": false,
      "LogEnable": false,
      "MMSEnable": false,
      "MailEnable": true,
      "MatrixChannels": [
        0
      ],
      "MatrixEnable": false,
      "MessageEnable": false,
      "OnVideoMessageEnable": false,
      "PtzLink": [
        [
          "Pause",
          5,
          124,
          0,
          0
        ]
      ],
      "PtzLinkEnable": true,
      "RecordChannels": [
        0,
        1
      ],
      "RecordEnable": true,
      "RecordLatch": 10,
      "Snapshot": 1,
      "SnapshotChannels": [
        0,
        1
      ],
      "SnapshotEnable": true,
      "SnapshotPeriod": 0,
      "SnapshotTimes": 1,
      "SnapshotTitleEnable": true,
      "TimeSection": [
        [
          "1 11:00:00-12:20:00",
          "1 15:20:01-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
```

```
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
```

```
                    "0 00:00:00-23:59:59",
                    "0 00:00:00-23:59:59",
                    "0 00:00:00-23:59:59",
                    "0 00:00:00-23:59:59",
                    "0 00:00:00-23:59:59"
                ]
            ],
            "TourChannels": [
                0
            ],
            "TourEnable": false,
            "VoiceEnable": false
        }
    }
]
},
"result": true,
"session": 702512128
}
```

Step3：設置溫度報警配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "configManager.setConfig",
	  "params": {
	    "name": "HeatImagingTemper",
	    "table": [
	      {
	        "Enable": false,
	        "EventHandler": {
	          "AlarmOutChannels": [
	            0
	          ],
	          "AlarmOutEnable": false,
	          "AlarmOutLatch": 10,
	          "BeepEnable": false,
	          "Dejitter": 0,
	          "Delay": 30,
	          "ExAlarmOutChannels": [
	            0

```
                                                ],
                                                "ExAlarmOutEnable": false,
                                                "LogEnable": true,
                                                "MMSEnable": false,
                                                "MailEnable": false,
                                                "MatrixChannels": [
                                                    0
                                                ],
                                                "MatrixEnable": false,
                                                "MessageEnable": false,
                                                "OnVideoMessageEnable": false,
                                                "PtzLink": [
                                                    [
                                                        "None",
                                                        0,
                                                        0,
                                                        0,
                                                        0
                                                    ]
                                                ],
                                                "PtzLinkEnable": false,
                                                "RecordChannels": [
                                                    0,
                                                    1
                                                ],
                                                "RecordEnable": false,
                                                "RecordLatch": 10,
                                                "Snapshot": 1,
                                                "SnapshotChannels": [
                                                    0,
                                                    1
                                                ],
                                                "SnapshotEnable": true,
                                                "SnapshotPeriod": 0,
                                                "SnapshotTimes": 1,
                                                "SnapshotTitleEnable": true,
                                                "TimeSection": [
                                                    [
                                                        "1 00:00:00-23:59:59",
                                                        "0 00:00:00-23:59:59",
                                                        "0 00:00:00-23:59:59",
                                                        "0 00:00:00-23:59:59",
                                                        "0 00:00:00-23:59:59",
                                                        "0 00:00:00-23:59:59"
```

        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
        ],
        [
            "1 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",

```
              "0 00:00:00-23:59:59",
              "0 00:00:00-23:59:59",
              "0 00:00:00-23:59:59",
              "0 00:00:00-23:59:59"
           ]
        ],
        "TourChannels": [
           0
        ],
        "TourEnable": false,
        "VoiceEnable": false
     },
     "HotSpotShape": "Triangle"
  },
  {
     "Enable": true,
     "EventHandler": {
        "AlarmOutChannels": [
           0
        ],
        "AlarmOutEnable": true,
        "AlarmOutLatch": 10,
        "BeepEnable": false,
        "Dejitter": 0,
        "Delay": 30,
        "ExAlarmOutChannels": [
           0
        ],
        "ExAlarmOutEnable": false,
        "LogEnable": true,
        "MMSEnable": false,
        "MailEnable": true,
        "MatrixChannels": [
           0
        ],
        "MatrixEnable": false,
        "MessageEnable": false,
        "OnVideoMessageEnable": false,
        "PtzLink": [
           [
              "None",
              0,
              0,
              0,
```

                      0
                    ]
                  ],
                  "PtzLinkEnable": true,
                  "RecordChannels": [
                    0,
                    1
                  ],
                  "RecordEnable": true,
                  "RecordLatch": 10,
                  "Snapshot": 1,
                  "SnapshotChannels": [
                    0,
                    1
                  ],
                  "SnapshotEnable": true,
                  "SnapshotPeriod": 0,
                  "SnapshotTimes": 1,
                  "SnapshotTitleEnable": true,
                  "TimeSection": [
                    [
                      "1 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59"
                    ],
                    [
                      "1 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59"
                    ],
                    [
                      "1 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59"
                    ],

```
                    [
                        "1 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59"
                    ],
                    [
                        "1 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59"
                    ],
                    [
                        "1 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59"
                    ],
                    [
                        "1 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59",
                        "0 00:00:00-23:59:59"
                    ]
                ],
                "TourChannels": [
                    0
                ],
                "TourEnable": false,
                "VoiceEnable": false
            },
            "HotSpotShape": "Triangle"
        }
    ],
    "options": []
},
```

RPCResponse	

```
    "id": 11,
    "session": 702512128
}
```

Step4：設置溫度報警配置返回

RPCResponse	

Body	{
	  "id": 11,
	  "params": {
	    "options": null
	  },
	  "result": true,
	  "session": 702512128
	}

3.3 冷熱點報警

下列設置為冷熱點報警相關功能，冷熱點開關和顏色由全域設置

3.3.1 獲取冷熱點報警配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.getConfig",	獲取配置	
"params": {		
"name": "HotColdSpotWarning"	配置名稱	
},		
"id": 13,	ID 號	累加範圍 1-65535
"session":702512128	登錄權杖	第一次的登錄獲取的
}		

返回全部配置資訊，具體功能以 web 介面顯示為准。設置時 web 沒有的參數，按照獲取預設值設置。

無效參數將標紅

Sample	Description	Value
RPC Response:		
Sample	Description	Value
{		
"id": 13,	ID 號	請求 ID 一致
"params": {		
"table": [		
{		雙光設備 通道 1 溫度報警中設置無效
"ColdAlarmCondition": "BelowMin",		
"ColdAlarmEnable": false,		
"ColdSpotLinkEnable": false,		
"ColdThreshold": 20,		
"EventHandler": {		
"AlarmOutChannels": [		
0		
],		
"AlarmOutEnable": false,		
"AlarmOutLatch": 10,		
"BeepEnable": false,		
"Dejitter": 0,		
"Delay": 30,		
"ExAlarmOutChannels": [		
0		
],		
"ExAlarmOutEnable": false,		

無效參數將標紅

```
"LogEnable": false,

"MMSEnable": false,

"MailEnable": false,

"MatrixChannels": [

    0

],

"MatrixEnable": false,

"MessageEnable": false,

"OnVideoMessageEnable": false,

"PtzLink": [

    [

        "None",

        0,

        0,

        0,

        0

    ]

],

"PtzLinkEnable": false,

"RecordChannels": [

    0,

    1

],

"RecordEnable": false,

"RecordLatch": 10,
```

"Snapshot": 1,

"SnapshotChannels": [

0,

1

],

"SnapshotEnable": true,

"SnapshotPeriod": 0,

"SnapshotTimes": 1,

"SnapshotTitleEnable": true,

"TimeSection": [

[

"1 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"

],

[

"1 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"

```
    ],
    [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
    ],
    [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
    ],
    [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
    ],
```

```
            [
                "1 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59"
            ],
            [
                "1 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59"
            ]
        ],
        "TourChannels": [
            0
        ],
        "TourEnable": false,
        "VoiceEnable": false
    },
    "HotAlarmCondition": "BelowMin",
    "HotAlarmEnable": false,
```

"HotSpotLinkEnable": false,

"HotThreshold": 20,

"TimeSchedule": [

  [

    "1 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59"

  ],

  [

    "1 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59"

  ],

  [

    "1 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

    "0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		

],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
]		
},		
{		
"ColdAlarmCondition": "AboveMaxAndBelowMin",	冷點報警條件	取值範圍： "BelowMin",低於低溫閾值 "AboveMaxAndBelowMin",最低溫低於低溫閾值，最高溫高於高溫閾值
"ColdAlarmEnable": true,	冷點報警使能	true 開啟 false 關閉
"ColdSpotLinkEnable": false,	Web 不顯示	
"ColdThreshold": 20,	冷點報警閾值溫度值	-40-1000（float）
"EventHandler": {		
"AlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"AlarmOutEnable": false,	報警輸出使能	true 開啟 false 關閉
"AlarmOutLatch": 10,	報警輸出延時	10-300（int）

"BeepEnable": false,	Web 不顯示	默認為 false
"Dejitter": 0,	去抖動	默認為 0
"Delay": 30,	Web 不顯示	默認為 30
"ExAlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"ExAlarmOutEnable": false,	Web 不顯示	默認為 false
"LogEnable": false,	Web 不顯示	默認為 false
"MMSEnable": false,	Web 不顯示	默認為 false
"MailEnable": false,	聯動郵件	true 開啟 false 關閉
"MatrixChannels": [	Web 不顯示	默認為 0
0		
],		
"MatrixEnable": false,	Web 不顯示	默認為 false
"MessageEnable": false,	Web 不顯示	默認為 false
"OnVideoMessageEnable": false,	Web 不顯示	默認為 false
"PtzLink": [	聯動雲台	
[		
"None",	聯動操作	None 無 Preset 預置點 Tour 巡航組 Pattern 巡跡 Pause 暫停
0,	聯動序號	不同聯動操作範圍不一致 以 web 介面顯示為准
0,	聯動時間	0-300（int）
0,	Web 不顯示	默認為 0

0	Web 不顯示	默認為 0
]		
],		
"PtzLinkEnable": false,	聯動雲台使能	true 開啟 false 關閉
"RecordChannels": [	聯動錄影通道	0 可見光 1 熱像
0,		
1		
],		
"RecordEnable": false,	聯動錄影使能	true 開啟 false 關閉
"RecordLatch": 10,	錄影延時	0-300（int）
"Snapshot": 1,	Web 不顯示	默認為 1
"SnapshotChannels": [	聯動抓圖通道	0 可見光 1 熱像
0,		
1		
],		
"SnapshotEnable": true,	抓圖使能	true 開啟 false 關閉
"SnapshotPeriod": 0,	Web 不顯示	默認為 0
"SnapshotTimes": 1,	Web 不顯示	默認為 1
"SnapshotTitleEnable": true,	Web 不顯示	默認為 true
"TimeSection": [		
[		星期天布撤防時間。 為 1 表示 生效時間段 一天可以設置 6 個時間段 時間段之間不能有交叉

"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期一布撤防時間
"1 03:24:32-03:32:43",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期二布撤防時間
"1 03:24:32-03:32:43",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期三布撤防時間
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期四布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期五布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期六布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
],		
"TourChannels": [	Web 不顯示	默認為 0
0		
],		
"TourEnable": false,	Web 不顯示	默認為 false
"VoiceEnable": false	Web 不顯示	默認為 false
},		
"HotAlarmCondition": "AboveMaxAndBelowMin",	熱點報警條件	取值範圍： "AboveMax",高於高溫閾值 "AboveMaxAndBelowMin",最低溫低於低溫閾值，最高溫高於高溫閾值 (冷點報警條件也取此值時生效)
"HotAlarmEnable": true,	熱點報警使能	true 開啟， false 關閉
"HotSpotLinkEnable": true,	Web 不顯示	默認為 true
"HotThreshold": 20,	熱點報警閾值溫度值	-40-1000（float）
"TimeSchedule": [		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

```
      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"
```

],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		

Sample	Description	Value
]		
}		
]		
},		
"result": true,	請求結果	true 成功 false 失敗
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.3.2 設置冷熱點配置

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method": "configManager.setConfig",	ID 號	請求 ID 一致
"params": {		
"name": "HotColdSpotWarning",	配置名稱	
"table": [		
{		雙光設備 通道 1 溫度報警中設置無效
"ColdAlarmCondition": "BelowMin",		
"ColdAlarmEnable": false,		
"ColdSpotLinkEnable": false,		
"ColdThreshold": 20,		
"EventHandler": {		
"AlarmOutChannels": [		

```
            0

        ],

        "AlarmOutEnable": false,

        "AlarmOutLatch": 10,

        "BeepEnable": false,

        "Dejitter": 0,

        "Delay": 30,

        "ExAlarmOutChannels": [

            0

        ],

        "ExAlarmOutEnable": false,

        "LogEnable": false,

        "MMSEnable": false,

        "MailEnable": false,

        "MatrixChannels": [

            0

        ],

        "MatrixEnable": false,

        "MessageEnable": false,

        "OnVideoMessageEnable": false,

        "PtzLink": [

            [

                "None",

                0,

                0,
```

          0,

          0

        ]

      ],

      "PtzLinkEnable": false,

      "RecordChannels": [

        0,

        1

      ],

      "RecordEnable": false,

      "RecordLatch": 10,

      "Snapshot": 1,

      "SnapshotChannels": [

        0,

        1

      ],

      "SnapshotEnable": true,

      "SnapshotPeriod": 0,

      "SnapshotTimes": 1,

      "SnapshotTitleEnable": true,

      "TimeSection": [

        [

          "1 00:00:00-23:59:59",

          "0 00:00:00-23:59:59",

          "0 00:00:00-23:59:59",

```
        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ],

    [

        "1 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ],

    [

        "1 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59"

    ],

    [

        "1 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",

        "0 00:00:00-23:59:59",
```

```
      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59"

    ],

    [

      "1 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",

      "0 00:00:00-23:59:59",
```

```
                    "0 00:00:00-23:59:59"

                ]

            ],

            "TourChannels": [

                0

            ],

            "TourEnable": false,

            "VoiceEnable": false

        },

        "HotAlarmCondition": "BelowMin
",

        "HotAlarmEnable": false,

        "HotSpotLinkEnable": false,

        "HotThreshold": 20,

        "TimeSchedule": [

            [

                "1 00:00:00-23:59:59",

                "0 00:00:00-23:59:59",

                "0 00:00:00-23:59:59",

                "0 00:00:00-23:59:59",

                "0 00:00:00-23:59:59",

                "0 00:00:00-23:59:59"

            ],

            [

                "1 00:00:00-23:59:59",

                "0 00:00:00-23:59:59",
```

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"

],

[

"1 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"

],

[

"1 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59"

],

[

"1 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

"0 00:00:00-23:59:59",

	冷點報警條件	於低溫閾值，最高溫高於高溫閾值
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
]		
},		
{		
"ColdAlarmCondition": "AboveMaxAndBelowMin",	冷點報警條件	取值範圍： **"BelowMin",** 低於低溫閾值 **"AboveMaxAndBelowMin",** 最低溫低於低溫閾值，最高溫高於高溫閾值

"ColdAlarmEnable": false,	冷點報警使能	true 開啟 false 關閉
"ColdSpotLinkEnable": false,	Web 不顯示	
"ColdThreshold": 0,	冷點報警閾值溫度值	-40-1000（float）
"EventHandler": {		
"AlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"AlarmOutEnable": true,	報警輸出使能	true 開啟 false 關閉
"AlarmOutLatch": 10,	報警輸出延時	10-300（int）
"BeepEnable": false,	Web 不顯示	默認為 false
"Dejitter": 0,	去抖動	默認為 0
"Delay": 30,	Web 不顯示	默認為 30
"ExAlarmOutChannels": [	Web 不顯示	默認為 0
0		
],		
"ExAlarmOutEnable": false,	Web 不顯示	默認為 false
"LogEnable": false,	Web 不顯示	默認為 false
"MMSEnable": false,	Web 不顯示	默認為 false
"MailEnable": false,	聯動郵件	true 開啟 false 關閉
"MatrixChannels": [	Web 不顯示	默認為 0
0		
],		
"MatrixEnable": false,	Web 不顯示	默認為 false

"MessageEnable": false,	Web 不顯示	默認為 false
"OnVideoMessageEnable": false,	Web 不顯示	默認為 false
"PtzLink": [		
[		
"None",	聯動操作	None 無 Preset 預置點 Tour 巡航組 Pattern 巡跡 Pause 暫停
0,	聯動序號	不同聯動操作範圍不一致 以 web 介面顯示為准
0,	聯動時間	0-300（int）
0,	Web 不顯示	默認為 0
0	Web 不顯示	默認為 0
]		
],		
"PtzLinkEnable": false,	聯動雲台使能	true 開啟 false 關閉
"RecordChannels": [0,1],	聯動錄影通道	0 可見光 1 熱像
"RecordEnable": false,	聯動錄影使能	true 開啟 false 關閉
"RecordLatch": 10,	錄影延時	0-300（int）
"Snapshot": 1,	Web 不顯示	默認為 1
"SnapshotChannels": [0,1],	聯動抓圖通道	0 可見光 1 熱像
"SnapshotEnable": false,	抓圖使能	true 開啟 false 關閉
"SnapshotPeriod": 0,	Web 不顯示	默認為 0

"SnapshotTimes": 1,	Web 不顯示	默認為 1
"SnapshotTitleEnable": true,	Web 不顯示	默認為 true
"TimeSection": [		
[		星期天布撤防時間。 為 1 表示 生效時間段 一天可以設置 6 個時間段 時間段之間不能有交叉
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期一布撤防時間
"1 03:24:32-03:32:43",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期二布撤防時間
"1 03:24:32-03:32:43",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期三布撤防時間
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期四布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		星期五布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59"		
],		
[		星期六布撤防時間
"1 05:51:48-08:40:54",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
],		
"TourChannels": [	**Web 不顯示**	默認為 0
0		
],		
"TourEnable": false,	**Web 不顯示**	默認為 false
"VoiceEnable": false	**Web 不顯示**	默認為 false
},		
"HotAlarmCondition": "AboveMaxAndBelowMin",	熱點報警條件	取值範圍： **"AboveMax",**高於高溫閾值 **"AboveMaxAndBelowMin",**最低溫低於低溫閾值，最高溫高於高溫閾值(冷點報警條件也取此值時生效)
"HotAlarmEnable": true,	熱點報警使能	**true** 開啟， **false** 關閉
"HotSpotLinkEnable": true,	**Web 不顯示**	默認為 **true**
"HotThreshold": 0,	熱點報警閾值溫度值	**-40-1000**（**float**）
"TimeSchedule": [		
[		

"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
],		
[		
"1 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		

"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59",		
"0 00:00:00-23:59:59"		
]		
]		
}		
],		
"options": []		
},		
"id": 190,	ID 號	累加範圍 1-65535
"session": 702512128	登錄權杖	第一次的登錄獲取的
}		

3.3.3 冷熱點報警示例

Step1：獲取冷熱點報警配置

URL	http://192.168.1.108/RPC2
Request	POST
Body	{ 　　**"method": "configManager.getConfig",** 　　**"params": {** 　　**"name": "HotColdSpotWarning"** 　　**},** 　　**"id": 13,** 　　**"session": 702512128** **}**

Step2：冷熱點報警配置返回

RPCResponse	
Body	{ 　　**"id": 13,** 　　**"params": {**

```json
"table": [
  {
    "ColdAlarmCondition": "BelowMin",
    "ColdAlarmEnable": false,
    "ColdSpotLinkEnable": false,
    "ColdThreshold": 20,
    "EventHandler": {
      "AlarmOutChannels": [
        0
      ],
      "AlarmOutEnable": false,
      "AlarmOutLatch": 10,
      "BeepEnable": false,
      "Dejitter": 0,
      "Delay": 30,
      "ExAlarmOutChannels": [
        0
      ],
      "ExAlarmOutEnable": false,
      "LogEnable": false,
      "MMSEnable": false,
      "MailEnable": false,
      "MatrixChannels": [
        0
      ],
      "MatrixEnable": false,
      "MessageEnable": false,
      "OnVideoMessageEnable": false,
      "PtzLink": [
        [
          "None",
          0,
          0,
          0,
          0
        ]
      ],
      "PtzLinkEnable": false,
      "RecordChannels": [
        0,
        1
      ],
      "RecordEnable": false,
      "RecordLatch": 10,
```

"Snapshot": 1,
"SnapshotChannels": [
  0,
  1
],
"SnapshotEnable": true,
"SnapshotPeriod": 0,
"SnapshotTimes": 1,
"SnapshotTitleEnable": true,
"TimeSection": [
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
  ],
  [
    "1 00:00:00-23:59:59",

```
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ],
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"
        ]
      ],
      "TourChannels": [
        0
      ],
      "TourEnable": false,
      "VoiceEnable": false
    },
    "HotAlarmCondition": "BelowMin",
    "HotAlarmEnable": false,
    "HotSpotLinkEnable": false,
    "HotThreshold": 20,
    "TimeSchedule": [
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
```

```
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59"
    ],
    [
      "1 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59"
    ],
    [
      "1 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59"
    ],
    [
      "1 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59"
    ],
    [
      "1 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59"
    ],
    [
      "1 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
      "0 00:00:00-23:59:59",
```

```
            "0 00:00:00-23:59:59"
          ]
        ]
      },
      {
        "ColdAlarmCondition": "AboveMaxAndBelowMin",
        "ColdAlarmEnable": true,
        "ColdSpotLinkEnable": false,
        "ColdThreshold": 20,
        "EventHandler": {
          "AlarmOutChannels": [
            0
          ],
          "AlarmOutEnable": false,
          "AlarmOutLatch": 10,
          "BeepEnable": false,
          "Dejitter": 0,
          "Delay": 30,
          "ExAlarmOutChannels": [
            0
          ],
          "ExAlarmOutEnable": false,
          "LogEnable": false,
          "MMSEnable": false,
          "MailEnable": false,
          "MatrixChannels": [
            0
          ],
          "MatrixEnable": false,
          "MessageEnable": false,
          "OnVideoMessageEnable": false,
          "PtzLink": [
            [
              "None",
              0,
              0,
              0,
              0
            ]
          ],
          "PtzLinkEnable": false,
          "RecordChannels": [
            0,
            1
```

```
    ],
    "RecordEnable": false,
    "RecordLatch": 10,
    "Snapshot": 1,
    "SnapshotChannels": [
      0,
      1
    ],
    "SnapshotEnable": true,
    "SnapshotPeriod": 0,
    "SnapshotTimes": 1,
    "SnapshotTitleEnable": true,
    "TimeSection": [
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 03:24:32-03:32:43",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 03:24:32-03:32:43",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
```

          ],
          [
            "1 05:51:48-08:40:54",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
            "1 05:51:48-08:40:54",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
            "1 05:51:48-08:40:54",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ]
        ],
        "TourChannels": [
          0
        ],
        "TourEnable": false,
        "VoiceEnable": false
      },
      "HotAlarmCondition": "AboveMaxAndBelowMin",
      "HotAlarmEnable": true,
      "HotSpotLinkEnable": true,
      "HotThreshold": 20,
      "TimeSchedule": [
        [
          "1 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59",
          "0 00:00:00-23:59:59"

],
[
    "1 00:00:00-23:59:59",
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    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
],
[
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
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    "0 00:00:00-23:59:59",
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    "0 00:00:00-23:59:59"
],
[
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
],
[
    "1 00:00:00-23:59:59",
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    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
],
[
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",
    "0 00:00:00-23:59:59"
],
[
    "1 00:00:00-23:59:59",
    "0 00:00:00-23:59:59",

| | "0 00:00:00-23:59:59",
"0 00:00:00-23:59:59",
"0 00:00:00-23:59:59",
"0 00:00:00-23:59:59"
      ]
    ]
  }
 ]
},
"result": true,
"session": 702512128
} |

Step3：設置冷熱點報警配置

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	    "method": "configManager.setConfig",
	    "params": {
	      "name": "HotColdSpotWarning",
	      "table": [
	        {
	          "ColdAlarmCondition": "BelowMin",
	          "ColdAlarmEnable": false,
	          "ColdSpotLinkEnable": false,
	          "ColdThreshold": 20,
	          "EventHandler": {
	            "AlarmOutChannels": [
	              0
	            ],
	            "AlarmOutEnable": false,
	            "AlarmOutLatch": 10,
	            "BeepEnable": false,
	            "Dejitter": 0,
	            "Delay": 30,
	            "ExAlarmOutChannels": [
	              0
	            ],
	            "ExAlarmOutEnable": false,
	            "LogEnable": false,
	            "MMSEnable": false,
	            "MailEnable": false,
	            "MatrixChannels": [
	              0

```
                  ],
                  "MatrixEnable": false,
                  "MessageEnable": false,
                  "OnVideoMessageEnable": false,
                  "PtzLink": [
                    [
                      "None",
                      0,
                      0,
                      0,
                      0
                    ]
                  ],
                  "PtzLinkEnable": false,
                  "RecordChannels": [
                    0,
                    1
                  ],
                  "RecordEnable": false,
                  "RecordLatch": 10,
                  "Snapshot": 1,
                  "SnapshotChannels": [
                    0,
                    1
                  ],
                  "SnapshotEnable": true,
                  "SnapshotPeriod": 0,
                  "SnapshotTimes": 1,
                  "SnapshotTitleEnable": true,
                  "TimeSection": [
                    [
                      "1 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
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                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59"
                    ],
                    [
                      "1 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
                      "0 00:00:00-23:59:59",
```

```
                                            "0 00:00:00-23:59:59"
                                        ],
                                        [
                                            "1 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59"
                                        ],
                                        [
                                            "1 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59"
                                        ],
                                        [
                                            "1 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
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                                            "0 00:00:00-23:59:59"
                                        ],
                                        [
                                            "1 00:00:00-23:59:59",
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                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59"
                                        ],
                                        [
                                            "1 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59",
                                            "0 00:00:00-23:59:59"
                                        ]
                                    ],
                                    "TourChannels": [
```

```
            0
          ],
          "TourEnable": false,
          "VoiceEnable": false
        },
        "HotAlarmCondition": "BelowMin",
        "HotAlarmEnable": false,
        "HotSpotLinkEnable": false,
        "HotThreshold": 20,
        "TimeSchedule": [
          [
            "1 00:00:00-23:59:59",
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            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
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            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59"
          ],
          [
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            "0 00:00:00-23:59:59",
            "0 00:00:00-23:59:59",
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            "0 00:00:00-23:59:59"
          ],
          [
            "1 00:00:00-23:59:59",
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            "0 00:00:00-23:59:59",
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          ],
          [
            "1 00:00:00-23:59:59",
```

```
        "0 00:00:00-23:59:59",
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        "0 00:00:00-23:59:59",
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      ],
      [
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        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ]
    ]
  },
  {
    "ColdAlarmCondition": "AboveMaxAndBelowMin",
    "ColdAlarmEnable": false,
    "ColdSpotLinkEnable": false,
    "ColdThreshold": 0,
    "EventHandler": {
      "AlarmOutChannels": [
        0
      ],
      "AlarmOutEnable": true,
      "AlarmOutLatch": 10,
      "BeepEnable": false,
      "Dejitter": 0,
      "Delay": 30,
      "ExAlarmOutChannels": [
        0
      ],
      "ExAlarmOutEnable": false,
      "LogEnable": false,
      "MMSEnable": false,
```

```
            "MailEnable": false,
            "MatrixChannels": [
              0
            ],
            "MatrixEnable": false,
            "MessageEnable": false,
            "OnVideoMessageEnable": false,
            "PtzLink": [
              [
                "None",
                0,
                0,
                0,
                0
              ]
            ],
            "PtzLinkEnable": false,
            "RecordChannels": [],
            "RecordEnable": false,
            "RecordLatch": 10,
            "Snapshot": 1,
            "SnapshotChannels": [],
            "SnapshotEnable": false,
            "SnapshotPeriod": 0,
            "SnapshotTimes": 1,
            "SnapshotTitleEnable": true,
            "TimeSection": [
              [
                "1 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59"
              ],
              [
                "1 03:24:32-03:32:43",
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                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59",
                "0 00:00:00-23:59:59"
              ],
              [
```

        "1 03:24:32-03:32:43",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 05:51:48-08:40:54",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 05:51:48-08:40:54",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 05:51:48-08:40:54",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ]
    ],
    "TourChannels": [
      0
    ],
    "TourEnable": false,

```
        "VoiceEnable": false
    },
    "HotAlarmCondition": "AboveMaxAndBelowMin",
    "HotAlarmEnable": true,
    "HotSpotLinkEnable": true,
    "HotThreshold": 0,
    "TimeSchedule": [
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
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        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
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        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
```

<table>
<tr><td></td><td>

```
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ],
      [
        "1 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59",
        "0 00:00:00-23:59:59"
      ]
    ]
  }
 ],
 "options": []
},
"id": 190,
"session": 702512128
}
```

</td></tr>
</table>

Step4:設置冷熱點報警回復

RPCResponse	

Body	
	``
	{
	  "id": 190,
	  "params": {
	    "options": null
	  },
	  "result": true,
	  "session": 702512128
	}
	``

3.4 熱圖匯出

熱圖匯出可以使用如下 HTTP 指令，其 response 資料就是熱圖。

http://192.168.1.108/cgi-bin/RPC_Loadfile/RadiometryHeatMap.jpg&channel=2

4 測溫事件查詢

4.1.1 查詢測溫事件

RPC Request: http://192.168.1.108/RPC2		
Sample	**Description**	**Value**
{		
"method" : **"RadiometryManager.startFindEvent",**	開始測溫事件查詢	
"params" : {		
"condition" : {	查詢的條件	
"StartTime" : "2010-04-01 00:00:00",	查詢開始時間	
"EndTime" : "2010-04-08 00:00:00",	查詢結束時間	
"Type" : **["HeatImagingTemper","FireWarning"],**	查詢指定事件類別	**"HeatImagingTemper"**:測溫事件 **"FireWarning"**:火情事件 **"BetweenRulesTemperDiffAlarm"**: 測溫規則對比事件 **"HotSpotWarning"**:熱點事件 **"ColdSpotWarning"**:冷點事件 **"HighLightProtect"**:強光保護事件
"channel" : 0	通道號	channel 不傳可查兩個通道
}		
},		
"id": 1,	ID 號	需累加，範圍（1-65535）

Sample	Description	Value
"session":474392315	登錄權杖	
}		

RPC Response:		
Sample	Description	Value
{		
"id" : 1,	ID 號	請求 ID 一致
"params" : {	返回參數	
"token" : 46878,	取到的查詢權杖	
"totalCount" : 33	符合此次查詢準則的結果總條數	
},		
"result" : true,	是否成功	
"session":474392315	登錄權杖	
}		

4.1.2 獲取測溫事件

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method" : "RadiometryManager.doFindEvent",	獲取查詢到的測溫事件	
"params" : {		
"token" : 46878,	查詢權杖	
"beginNumber" : 16,	本次查詢開始的索引號	
"count" : 16	本次查詢條數	
},		

"id": 2,	ID 號	需累加，範圍（1-65535）
"session":474392315	登錄權杖	
}		

RPC Response:		
Sample	Description	Value
{		
"id" : 2,	ID 號	請求 ID 一致
"params" : {	返回參數	
"found" : 12,	實際查詢到的點數	
"info" : [EventInfo, …]	測溫事件資訊	是一個陣列，每個元素代表一條滿足條件的記錄 (測溫資訊詳情請參考事件資訊說明)
},		
"result" : true,	是否成功	
"session":474392315	登錄權杖	
}		

4.1.3 結束測溫事件查詢

RPC Request: http://192.168.1.108/RPC2		
Sample	Description	Value
{		
"method" : "RadiometryManager. stopFindEvent",	結束測溫事件查詢	
"params" : {		
"token" : 46878	查詢權杖	
},		
"id": 3,	ID 號	需累加，範圍（1-65535）

"session":474392315	登錄權杖	
}		

RPC Response:

Sample	Description	Value
{		
"id": 3,	ID 號	請求 ID 一致
"result": true,	是否成功	
"session": 474392315	登錄權杖	
}		

4.1.4 測溫事件查詢示例

Step1：查詢示例

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "RadiometryManager.startFindEvent",
	  "params": {
	    "condition": {
	      "StartTime": "2023-01-01 00:00:00",
	      "EndTime": "2023-10-31 23:59:59",
	      "Type": [
	        "HeatImagingTemper",
	        "FireWarning",
	        "HotSpotWarning",
	        "ColdSpotWarning",
	        "HighLightProtect",
	        "BetweenRulesTemperDiffAlarm"
	      ]
	    }
	  },
	  "id": 294,
	  "session": 461911028
	}

Step2：查詢示例返回

RPCResponse	

Body	{
	  "id": 294,
	  "params": {
	    "token": 10,
	    "totalCount": 4493
	  },
	  "result": true,
	  "session": 461911028
	}

Step3：獲取示例

URL	http://192.168.1.108/RPC2
Request	POST

Body	{
	  "method": "RadiometryManager.doFindEvent",
	  "params": {
	    "token": 10,
	    "beginNumber": 0,
	    "count": 4493
	  },
	  "id": 295,
	  "session": 461911028
	}

Step4：獲取示例返回

RPCResponse	

Body	{
	  "id": 294,
	  "params": {
	    "token": 10,
	    "totalCount": 4493
	  },
	  "result": true,
	  "session": 461911028
	}
	
	{
	  "id": 295,
	  "params": {
	    "found": 4493,
	    "info": [
	      {

      "Action": "Start",
      "Data": {
        "AlarmCondition": "Above",
        "AlarmId": 0,
        "CfgRuleId": 40,
        "Channel": 1,
        "Class": "",
        "Coordinate": [
          2293,
          3208
        ],
        "CountInGroup": 0,
        "EventSeq": 0,
        "FrameSequence": 78,
        "GroupID": 0,
        "IndexInGroup": 0,
        "Mark": 0,
        "Name": "點 1",
        "PTS": 42950071170.0,
        "PresetID": 0,
        "Remark": "Remarks reserved",
        "Result": "Value",
        "RuleId": 1,
        "Sequence": 0,
        "Source": 0.0,
        "TemperatureUnit": "Centigrade",
        "UTC": 1690812152,
        "UTCMS": 812,
        "Value": 24.0
      },
      "Index": 2621441,
      "PresetId": 0,
      "RuleId": 1,
      "Time": "2023-07-31 14:02:32",
      "Type": "HeatImagingTemper",
      "channel": 1
    },
    {
      "Action": "Start",
      "Data": {
        "AlarmCondition": "Above",
        "AlarmId": 0,
        "CfgRuleId": 28,
        "Channel": 1,

```
                    "Class": "",
                    "Coordinate": [
                        2099,
                        6080
                    ],
                    "CountInGroup": 0,
                    "EventSeq": 0,
                    "FrameSequence": 24,
                    "GroupID": 0,
                    "IndexInGroup": 0,
                    "Mark": 0,
                    "Name": "矩形 1",
                    "PTS": 42950056590.0,
                    "PresetID": 0,
                    "Remark": "Remarks reserved",
                    "Result": "Max",
                    "RuleId": 2,
                    "Sequence": 0,
                    "Source": 0.0,
                    "TemperatureUnit": "Centigrade",
                    "UTC": 1690814936,
                    "UTCMS": 951,
                    "Value": 28.60000038146973
                },
                "Index": 1835009,
                "PresetId": 0,
                "RuleId": 2,
                "Time": "2023-07-31 14:48:56",
                "Type": "HeatImagingTemper",
                "channel": 1
            },
.
.
.
.
略
]
    },
    "result": true,
    "session": 461911028
}
```

Step5：結束示例

URL	http://192.168.1.108/RPC2

Request	POST

Body	{
	
	  "method": "RadiometryManager.stopFindEvent",
	  "params": {
	    "token": 10
	 },
	  "id": 296,
	  "session": 461911028
	}

Step6：結束示例返回

RPCResponse	

Body	{
	  "id": 296,
	  "result": true,
	  "session": 461911028
	}

4.1.5 事件資訊說明

4.1.5.1 溫度報警

Sample	Description	Value
{		
"Action":"Start"，	事件動作	"Start" "Stop"
"Data": {	報警信息	
"AlarmCondition" : "Below",	報警條件	"Below" "Match" "Above"
"AlarmId" : 0,	報警項編號	
"Channel" : 1,	通道號	UInt32
"Coordinate":[6259,1600],	報警點座標	相對座標體系，取值均為 0~8191
"EventSeq":0,	事件序列	
"FrameSequence":96,	幀序列	
"Name" : "xxx",	溫度異常點名稱	從測溫規則配置項中選擇
"PresetID": 0,	預置點	UInt32
"Result": "Max",	報警結果數值型別，上報那種結果	"Max", 最大 "Min", 最小

		"Aver", 平均 "Value"點平均溫 "Diff", 溫差 "Slope", 斜率
"RuleId": 1,	規則	
"TemperatureUnit" : "Centigrade",	溫度單位(當前配置的溫度單位)	溫度單位支援兩種類型： "Centigrade"：攝氏度 "Fahrenheit":華氏度
"UTC": 1690812152,	時間	0 時區
"UTCMS": 812,	時間	0 時區
"Value" : 50.0	報警溫度值	
}		
"PresetId": 0,	預置點	
"RuleId": 1,	規則	
"Time": "2023-07-31 14:02:32",	時間	
"Type": "HeatImagingTemper",	事件類型	
"channel": 1	通道號	
}		

4.1.5.2 火情預警

Sample	Description	Value
{		
"Action":"Start"，	事件動作	"Start" "Stop"
"Data": {	報警信息	
"EventSeq":0,	事件序列	
"FrameSequence":96,	幀序列	
"Name" : "FireWarning",	事件名稱	
"PresetID": 0,	預置點	UInt32
"RuleId": 1,	規則	
"UTC": 1690812152,	時間	0 時區
"UTCMS": 812	時間	0 時區
}		
"PresetId": 0,	預置點	
"RuleId": 1,	規則	
"Time": "2023-07-31 14:02:32",	時間	
"Type": "FireWarning",	事件類型	
"channel": 1	通道號	
}		

4.1.5.3 溫差報警

Sample	Description	Value
{		
"Action":"Start"，	事件動作	"Start" "Stop"
"Data": {	報警信息	
"AlarmCondition" : "Below",	報警條件	"Below" "Match" "Above"
"Channel" : 1,	通道號	UInt32
"EventSeq":0,	事件序列	
"FrameSequence":172,	幀序列	
"Name":"BetweenRulesTemperDiffAlarm",	事件名稱	
"PresetID": 0,	預置點	UInt32
"Result": "Max",	報警結果數值型別，上報那種結果	"Max", 最大 "Min", 最小 "Aver", 平均 "Std", 標準 "Mid", 中間 "ISO" ISO "Value" "Diff", 溫差 "Slope", 斜率
"RuleId": 39,	規則	
"RuleId1": 1,	對比規則	
"RuleId1": 2,	對比規則	
"TemperatureUnit" : "Centigrade",	溫度單位(當前配置的溫度單位)	溫度單位支援兩種類型： "Centigrade"：攝氏度 "Fahrenheit":華氏度
"UTC": 1690812152,	時間	0 時區
"UTCMS": 812	時間	0 時區
}		
"PresetId": 0,	預置點	
"RuleId": 39,	規則	
"Time": "2023-07-31 14:02:32",	時間	
"Type":"BetweenRulesTemperDiffAlarm",	事件類型	
"channel": 1	通道號	
}		

4.1.5.4 冷點報警

Sample	Description	Value
{		
"Action":"Start"，	事件動作	"Start" "Stop"
"Data": {	報警信息	
"EventSeq":0,	事件序列	
"FrameSequence":96,	幀序列	
"Name" : "HotColdSpotWarning",	事件名稱	
"Point": [1715,768],	報警點座標	相對座標體系，取值均為 0~8191
"RuleId": 1,	規則	
"TemperatureUnit" : "Centigrade",	溫度單位(當前配置的溫度單位)	溫度單位支援兩種類型： "Centigrade"：攝氏度 "Fahrenheit":華氏度
"UTC": 1690812152,	時間	0 時區
"UTCMS": 812	時間	0 時區
}		
"PresetId": 0,	預置點	
"RuleId": 53,	規則	
"Time": "2023-07-31 14:02:32",	時間	
"Type": "ColdSpotWarning",	事件類型	
"channel": 1	通道號	
}		

4.1.5.5 熱點報警

Sample	Description	Value
{		
"Action":"Start"，	事件動作	"Start" "Stop"
"Data": {	報警信息	
"EventSeq":0,	事件序列	
"FrameSequence":96,	幀序列	
"Name" : "HotColdSpotWarning",	事件名稱	
"Point": [1715,768],	報警點座標	相對座標體系，取值均為 0~8191
"RuleId": 1,	規則	
"TemperatureUnit" : "Centigrade",	溫度單位(當前配置的溫度單位)	溫度單位支援兩種類型： "Centigrade"：攝氏度

		"Fahrenheit":華氏度
"UTC": 1690812152,	時間	0 時區
"UTCMS": 812	時間	0 時區
}		
"PresetId": 0,	預置點	
"RuleId": 53,	規則	
"Time": "2023-07-31 14:02:32",	時間	
"Type": "HotSpotWarning",	事件類型	
"channel": 1	通道號	
}		

4.1.6 測溫事件注意事項

1.需要插入 SD 卡，測溫事件是存到 SD 卡中的資料庫中的

2.需要記錄的事件需要事件使能，確定會產生事件報警

3.如果需要事件資訊關聯取圖，請開啟事件報警聯動抓圖或定時抓圖

4. 事件資訊關聯取圖，首先查詢事件記錄，獲取事件時間，可根據時間生成取圖路徑，
http://<ip>:<port>/cgi-bin/loadfile.cgi?action=startLoad&channel=1&time=2023-05-24%2017:54:30&type=jpg;

5.紅色部分 channel 指定要取那個通道的圖，time 指定為事件時間。

6.查詢事件後，需要 stopFindEvent 釋放查詢的 token，防止 token 洩露

7.事件需要按時間查詢，確保設備的時間準確，推薦設備開啟 NTP 功能同步時間。

8.事件關聯的抓圖，有可能因為 SD 卡空間有限，圖片會被迴圈覆蓋，建議使用空間足夠的 SD 卡，或不開啟 SD 錄影節省 SD 卡存儲空間。

8.在 APP 上通過 channel 號篩選，頁面 RPC 介面"channel：0"和"channel：1"分別代表兩個通道，APP 獲取資料時,CGI 協定 channel 號上"+1"處理（分別是 channel=1 和 channel=2 表示兩個通道）

10.查詢協定中，不加"channel"欄位，可查詢雙通道；

11.排序由用戶端處理：根據查詢結果返回總條數，倒序排列