



# Milesight AI ToF People Counting Sensor

## API Specification

Update Time	Applicable Firmware version	Description
2023-11-29	V_133.1.0.5	Video validation and etc.
2023-10-12	V_133.1.0.4-r1	Group counting, exhibition mode, etc.
2023-09-27	V_133.1.0.4	Dwell time, Heat Map feature, etc.

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# Overview

This document specifies the parameters and configuration files for Milesight AI ToF People Counting Sensor VS133.

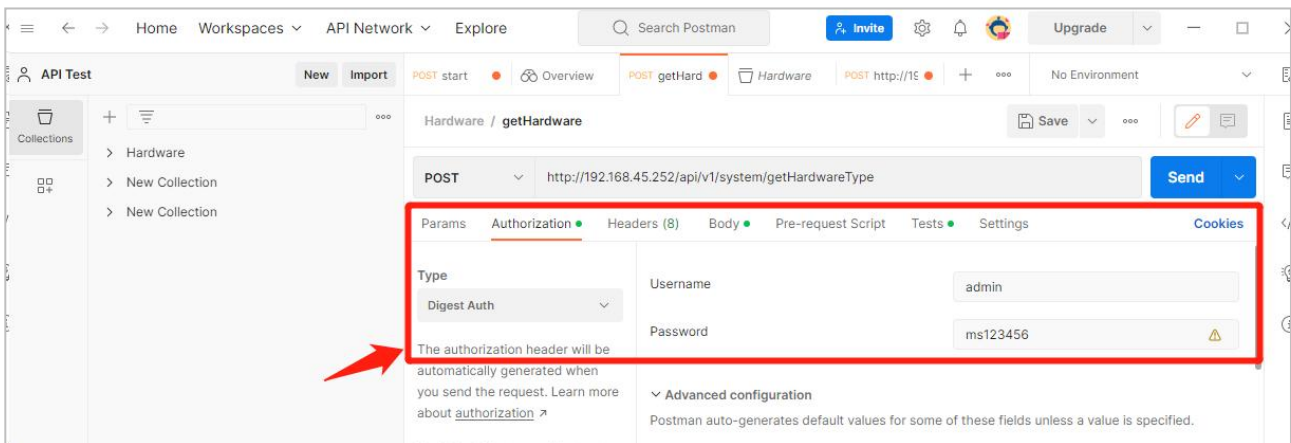
## Permission level

The permission levels column in each parameter table shows the required permission level to operate parameters.

To be able to perform an action on a parameter the user needs to have a permission level equal to or higher than the corresponding permission level of the parameter.

Security level	Description
Admin	Top access right.

Each API call needs to be accompanied with **Digest Authentication** as the following picture shows.



# 1. Dashboard

## 1.1 Live Preview Interface (websocket)

### Request URL:

<http://192.168.5.220:80/counting/frame/>

### Request Method:

post method

### Body

Parameter	Types	Required	Description
enable	Number	No	
playMode	String	No	0: Video 1: Picture 2: No image

### Return JSON parameter description:

Parameter	Types	Description
action	string	“transmit”: automatic posting
message	string	“frame”: image frame
result	object	
areas	Object[]	in and out people counts from different areas
enter		
leave	number	Counts of exit
childrenEnter	number	Counts of children enter
childrenLeave	number	Counts of childrenLeave
staffEnter	number	Counts of staffEnter
staffLeave	number	Counts of staffleave
line	number	The ID of different detection line
alarmIn	number	External digital input
timestamp	number	The timestamp of the count
regionCounting	Object[]	
index	number	
totalCount	number	Region total counts
staffCount	number	Staff counts

childrenCount	number	Children counts
dwellDetect	Object[]	
index	string	
dwellMax	string	
dwellAvg	string	
staffDwellMax	string	
staffDwellAvg	string	
childrenDwellMax	string	
childrenDwellAvg	string	
status	number	0: Success Other value: Fail
tracks	Object[]	
human	number	0: not the people 1: people
target	Array[]	"target":[[100,120],[100,120]]
personnelType	number	0: Adult 1: staff 2: Child
height	integer	Unit: mm

**Request Example:**

```
{
  "enable": true,
  "playMode": 1
}
```

## 1.2 Get Preview Image Parameters

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getFrameParams>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

**Return JSON parameter description:**

Parameter	Types	Required	Description
-----------	-------	----------	-------------

command	number	Optional	Order number
data	object	Optional	Return data
osdEnable	boolean	Optional	
playMode	number	Yes	
withTracks	string	Optional	
detectionLinesEnable	boolean	Yes	0: close 1: open
detectionRegionEnable	boolean	Yes	0: close 1: open
uturnAreasEnable	boolean	Yes	0: close 1: open
detail	string	Optional	Return Information
status	number	Optional	Status Value 0: Success
transmit_cast	number	Optional	Processing time

**Return Example:**

```
{
  "command": 115,
  "data": {
    "detectionLinesEnable": true,
    "detectionRegionsEnable": true,
    "grayConfigurable": false,
    "osdEnable": true,
    "playMode": 1,
    "type": "dist",
    "uturnAreasEnable": true,
    "withTracks": true
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}
```

## 1.3 Set the Preview Image Parameters

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/setFrameParams>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
withTracks	Required	boolean	True: enable Track False: disable Track
type	Optional	string	dist: depth color mode gray: gray mode
osdEnable	Optional	boolean	True: Display height info of people False: Not display any info of people
playMode	Required	number	0:video 1:picture 2:No Image
detectionLinesEnable	Required	boolean	0;close, 1:open
detectionRegionsEnable	Required	boolean	0;close, 1:open
uturnAreasEnable	Required	boolean	0;close, 1:open

**Request Example:**

Body:

```
{
  "withTracks": true,
  "type": "dist", "playMode": 0, "uturnAreasEnable": 0, "detectionRegionsEnable": 0, "uturnAreasEnable": 0
}
```

**Request Example:**

```
{
  "command": 116,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}
```

## 1.4 Get Web Display

**Request URL:**



<http://192.168.5.220:80/api/v1/counting/getWebDisplay>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
command	number	
data	object	
lineParam	object[]	Item type: object
includeChild	boolean	
includeStaff	boolean	
showCapacity	boolean	Whether to enable the capacity display
line	number	
regionParam	object[]	Item type: object
includeChild	boolean	
includeStaff	boolean	
index	number	
detail	string	
status	number	
transmit_cast	number	

**Return Content Example:**

```
{
  "command" : 9,
  "data" : {
    "lineParam" : [
      {
        "includeChild" : false,
        "includeStaff" : false,
        "line" : 1,
        "showCapacity" : false
      },
      {
        "includeChild" : false,
        "includeStaff" : false,

```

```
        "line" : 2,  
        "showCapacity" : true  
    },  
    {  
        "includeChild" : true,  
        "includeStaff" : true,  
        "line" : 3,  
        "showCapacity" : true  
    },  
    {  
        "includeChild" : true,  
        "includeStaff" : true,  
        "line" : 4,  
        "showCapacity" : true  
    }  
],  
"regionParam" : [  
    {  
        "includeChild" : true,  
        "includeStaff" : true,  
        "index" : 0  
    },  
    {  
        "includeChild" : false,  
        "includeStaff" : false,  
        "index" : 1  
    },  
    {  
        "includeChild" : false,  
        "includeStaff" : false,  
        "index" : 2  
    },  
    {  
        "includeChild" : true,  
        "includeStaff" : false,  
        "index" : 3  
    }  
]  
},
```

```

"detail" : "ok",
"status" : 0,
"transmit_cast" : 2
}

```

## 1.5 Set Web Display

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/setWebDisplay
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
lineParam	Yes	object[]	Item type: object
includeChild	Yes	boolean	
includeStaff	Yes	boolean	
line	Yes	number	
showCapacity	Yes	boolean	
regionParam	Yes	object[]	Item type: object
includeChild	Yes	boolean	
includeStaff	Yes	boolean	
index	Yes	number	

### Return JSON parameter description:

Parameter	Types	Description
detail	string	
status	string	

### Return Content Example:

```

{
  "command" : 10,
  "detail" : "error:Invalid request field",
  "status" : -1,
}

```

```
"transmit_cast" : 0
```

## 2. Rule

### 2.1 Get one ToF Image

#### Request URL:

```
http://192.168.5.220:80/api/v1/counting/getImage
```

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
type	Must	string	Type of image "dist": depth image
colored	Must	boolean	true: get pseudo-colour image false: get raw image

#### Request Example:

```
{
  "type": "dist",
  "colored": true
}
```

#### Return JSON parameter description:

Parameter	Types	Description
status	number	Status Value 0: Success
detail	string	Return Information
data	object	Image data

dist	string	The base64 string of the depth map
height	number	
type	number	Image type,1: U8C1; 2: U16C1; 16:U8C3;
width	number	

**Return Example:**

```
{
  "data": {
    "dist": "data:image/jpeg;base64,/9j/4AAQSkZJR.....FFf//Z",
    "height": 196,
    "type": 2,
    "width": 300
  },
  "detail": "ok",
  "status": 0
  "transmit_cast": 49
}
```

## 2.2 Get People Counting Configuration

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getAlgoParams>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Required	Description
command	number	Optional	
data	object	Optional	
childrenFilterEnable	boolean	Optional	
childrenFilterThreshold	number	Optional	
areas	object	Optional	
detectLines	Array[]	Optional	
uturnArea	Array[]	Optional	
linename	String[]		

enable	boolean		
deploy	object	Optional	Installation Information
angle	number	Optional	
height	string	Optional	Height of installation
regionCounting	object	Optional	
enable	boolean	Optional	
regionParam	object	Optional	
coordinate	object	Optional	
x	number	Yes	
y	number	Yes	
dwelldetectenable	boolean	optional	
index	number	optional	
minDwellTime	number	optional	
passByFiltering	number	optional	
regionCountingEnable	boolean	optional	
regionName	string	optional	
staffIdentifyEnable	boolean	Optional	
staffIdentifyThreshold	number	Optional	
staffDetectSens	number	Optional	
targets	object	Optional	Height range of targets
maxHeight	number	Optional	Maximum height
minHeight	number	Optional	Minimum height
trackMode	number	Optional	
uturnEnable	boolean	Optional	
heatmapEnable	boolean	Optional	
resetCumulativeInfo	object	Yes	
enable	boolean	Yes	
wDay	integer	Yes	0~6: from Sunday to
time	integer	Yes	Time with second unit. Ps” 01:00:00” the value is
groupCountingEnable	number	Yes	
detail	string	Optional	
status	number	Optional	
transmit_cast	number	Optional	

**Return Example:**

```
{
  "command": 104,
  "data": {
```

```
"areas": {
  "detectLines": [],
  "lineNames": [
    "",
    "",
    "",
    ""
  ],
  "lineUids": [
    "",
    "",
    "",
    ""
  ],
  "uturnArea": [
    [],
    [
      [
        131,
        59
      ],
      [
        186,
        59
      ],
      [
        189,
        185
      ],
      [
        131,
        187
      ]
    ],
    [],
    []
  ]
},
"childrenFilterEnable": true,
```

```
"childrenFilterThreshold": 1300,  
"deploy": {  
  "angle": 0,  
  "height": 2800  
},  
"groupCountingEnable": true,  
"heatmapEnable": false,  
"regionCounting": {  
  "enable": false,  
  "regionParam": []  
},  
"resetCumulativeInfo": {  
  "enable": true,  
  "time": 1554479,  
  "wDay": 1  
},  
"staffDetectSens": 5,  
"staffIdentifyEnable": true,  
"staffIdentifyThreshold": 500,  
"targets": {  
  "maxHeight": 2800,  
  "minHeight": 2300  
},  
"trackMode": 1,  
"uturnEnable": false  
},  
"detail": "ok",  
"status": 0,  
"transmit_cast": 2  
}
```

## 2.3 Set People Counting Configuration

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/setAlgoParams
```

### Request Method:

post method

### Request JSON parameter description:

Headers



Parameter	Required	Value
Content-Type	Yes	application/json

## Body

Parameter	Type	Required	Description
deploy	object	optional	Set Installation Information
angle	string	optional	Installation angle(float)
height	number	optional	Height of installation
targets	object	optional	Set Height range of targets
maxHeight	number	optional	Maximum height
minHeight	number	optional	Minimum height
areas	object	optional	
enable	boolean	optional	
detectLines	Array[]	optional	
uturnArea	Array[]	optional	
LineNames	String[]	optional	
uturnEnable	Optional	optional	
childrenFilterEnable	boolean	optional	True or False
childrenFilterThreshold	number	optional	Default value is 1300,range 500-3000
staffIdentifyEnable	boolean	optional	Y
staffIdentifyThreshold	number	optional	The reflective area to mark a staff, default value is 500,
staffdetectSens	number	Yes	The sensitivity of staff recognition, range 1~10. 1) If current sensitivity value is too low, modify the value from 6 to 10. 2) If current sensitivity value is too high, modify the value from 4 to 0.
regionCounting	object	optional	
enable	boolean	optional	
regoinParam	Object[]	optional	
regionName	string	optional	
regionCountingEnable	boolean	optional	
passByFiltering	number	optional	
minDwellTime	number	optional	
dwellDetectEnable	boolean	optional	
coordinate	object []	optional	

X	number	optional	
Y	number	optional	
index	number	optional	0~3 : region ID from 1 to 4
heatmapEnable	boolean	optional	The ID of area 1-4 is: 0~3
trackMode	number	optional	0: Head mode 1: feet mode
resetCumulativeInfo	object	Yes	
enable	boolean	Yes	
wDay	integer	Yes	0: Sunday 1: Monday 2: Tuesday 3: Wednesday 4: Thursday 5: Friday 6: Saturday 7: Everyday
time	integer	Yes	Time. Unit: Second, Ps: time format is "01:00:00",then value is 3600
groupCountingEnable	number	Yes	
groupCountingNumMax	number	Yes	Default is 5,can modify to other.

**Request Example:**

```
{
  "resetCumulativeInfo": {
    "enable": true,
    "time": 1554479,
    "wDay": 1
  },
  "deploy": {
    "height": 2800
  },
  "targets": {
    "maxHeight": 2800,
    "minHeight": 2300
  },
  "areas": {
    "enable": false,
    "detectLines": []
  },
}
```

```

"uturnEnable": false,
"childrenFilterEnable": true,
"childrenFilterThreshold":1300
"staffIdentifyEnable": false,
"staffIdentifyThreshold": 500,
"regionCounting": {
  "enable": false,
  "regionParam": []
},
"heatmapEnable": false,
"trackMode": 1
}

```

**Return Example:**

```

{
  "command": 105,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 47
}

```

## 2.4 Obtain DI information

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getAlarmConfig>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	
in	object	
inCtrCount	object	
enable	number	

triggerMode	number	
status	number	0: success
Detail	string	
status	number	0: success
transmit_cast	number	Processing time

**Return Example:**

```
{
  "command": 109,
  "data": {
    "in": {
      "inCtrCount": {
        "enable": false,
        "triggerMode": 0
      },
      "status": 0
    }
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 2.5 Set DI information

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/setAlarmConfig>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Types	Description
in	object	
inCtrCount	object	
enable	number	Enable DI control people counting feature

triggerMode	number	DI trigger mode: 0: Enable DI status is low then enable people mode 1: Enable DI status is high then enable people counting mode
out	object	
alarmperiod	number	Output a high level signal in ms units to the outside

Each field can be configured individually enable in inCtrCount indicates whether the DI control count is enabled triggerMode indicates that the DI trigger mode is 0 when low counts are enabled and 1 when high counts are enabled

#### Request Example:

```
{
  "out": {
    "alarmPeriod":5000
  }
}
```

#### Return Example:

```
{
  "command": 110,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 2
}
```

## 2.6 Obtain Report information

#### Request URL:

<http://192.168.5.220:80/api/v1/counting/getAlarmConfig>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

#### Return JSON parameter description:

Parameter	Required	Types	Description
command	Optional	number	Order number

data	Optional	object	
httpConfig	Optional	object	
password	Optional	number	Returns only the number of digits
targetUrl	Optional	string	
username	Optional	string	
mqttConfig	Optional	object	
certificateType	Optional	number	0:CA 1:self
clientCertExist	Optional	boolean	
clientId	Optional	string	
clientKeyExist	Optional	boolean	
host	Optional	string	
password	Optional	number	Returns only the number of digits
port	Optional	string	
qos	Optional	number	
rootCertExist	Optional	boolean	
tlsEnable	Optional	boolean	
topic	Optional	string	
username	Optional	string	
periodEnable	Optional	boolean	
heartbeatEnable	Optional	boolean	0: close 1: open
periodIntervalMin	Optional	number	
reportProtocol	Optional	number	
triggerEnable	Optional	boolean	
resetCumulativePeriod	Must	object	
resetEnabled	Must	boolean	
wDay	Must	number	Day of the week: 0-6 for Sunday to Saturday, 7 for Everyday
time	Must	integer	The number of seconds of time. For example, if the time format is "01:00:00", the corresponding time is 3600
Detail	Optional	string	
status	Optional	number	0: success
transmit_cast	Optional	number	Processing time

**PS:** Version 1.0.4 added heartbeatEnable 0: close 1: open , this parameter only be valid when periodEnable is enabled. In version 1.0.4 will add resetCumulativePeriod parameter at same time.

#### Return Example:

```
{
  "command": 117,
  "data": {
    "httpConfig": {
      "password": 0,
      "targetUrl": "",
      "username": ""
    },
    "mqttConfig": {
      "certificateType": 0,
      "clientCertExist": false,
      "clientId": "",
      "clientKeyExist": false,
      "host": "",
      "password": 0,
      "port": "",
      "qos": 0,
      "rootCertExist": false,
      "tlsEnable": false,
      "topic": "",
      "username": ""
    },
    "periodEnable": true,
    "periodIntervalMin": 1,
    "reportProtocol": 1,
    "triggerEnable": true
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}
```

## 2.7 Set Report information

### Request URL:

<http://192.168.5.220:80/api/v1/counting/setReportParam>

### Request Method:

post method

### Request JSON parameter description:

## Headers

Parameter	Required	Value
Content-Type	Yes	application/json

## Body

Parameter	Types	Required	Description
recipientConfig	object	must	
protocolSetting	object	must	
reportProtocol	number	must	1:HTTP 2: MQTT
httpConfig	object	must	
password	number	must	Returns only the number of digits
targetUrl	string	must	
username	string	must	
mqttConfig	object	must	
certificateType	number	must	0:CA 1:self
deleteRootCrt	boolean	must	True means delete
deleteClientCrt	boolean	must	
deleteClientKey	boolean	must	
clientId	string	must	
tlsEnable	boolean	must	
qos	number	must	0: qos 0 1: qos 1 2: qos 2
host	string	must	Length: 512
topic	string	must	
username	string	must	
password	number	must	Returns only the number of digits
port	string	must	Range 1~65535,default is null
reportStrategy	object	must	
periodEnable	boolean	must	
heartbeatEnable	boolean	optional	0: Close 1: Open Only when periodEnable is



			ture,this parameter works
periodMode	integer	must	0:On the Dot 1: From Now
onTheDotMin	integer	must	When mode is on the dot,and value should be configured as unit: min
periodIntervalMin	integer	must	When mode is from now,and the value unit: min
triggerEnable	boolean	must	
dataRetransmissionEnable	boolean	must	
customizeReportEnable	boolean	must	
customizeDeviceInfo	integer	must	Each bit of a custom control as an enabling control switch (0: close, 1: open) bit0: Device Name ; bit1: Device SN ; bit2: MAC; bit3: ip; bit4: device ID; bit5: custom site ID bit6: running time
customizeTimeInfo	interger	must	Each bit of a custom control as an enabling control switch (0: close, 1: open) bit0: Trigger Time ; bit1: start time ; bit2: end time ; bit3: time zone; bit4: DST Enable; bit5: DST status
lineTriggerDataEnable	integer	must	
regionTriggerData	integer	must	Each bit of a custom control as an enabling control switch (0: close, 1: open) bit0: Region Count Data ; bit1: Dwell Time Data ; bit2: Dwell Start Time ;
linePeriodicDataEnable	integer	must	
lineTotalData	integer	must	

			bit0: Line Count Data ; bit1: Capacity Counted ;
regionPeriodicDataEnable	integer	must	
lineRegionNameEnable	integer	must	
lineRegionUuidEnable	integer	must	
recipientID	integer	must	Range from 1~6, to mark different forwarder ID.
recipientName	string	must	
method	integer	must	0: add; 1: delete; 2: modify
recipientID	integer	must	
loraReportStrategy	object	must	
periodEnable	boolean	must	
periodIntervalMin	integer	must	

**Body Example:**

```
{
  "recipientConfig": {
    "protocolSetting": {
      "reportProtocol": 1,
      "httpConfig": {
        "password": "",
        "username": "",
        "targetUrl": "192.168.45.12"
      },
    },
    "mqttConfig": {
      "certificateType":,
      "password": "",
      "username": "",
      "topic": "",
      "host": "192.168.45.13",
      "qos": 0,
      "tlsEnable": false,
      "clientId": "123",
      "deleteClientKey": true,
      "deleteClientCrt": true,
      "deleteRootCrt": true,
      "port": 1883
    }
  }
}
```

```
},
"reportStrategy": {
  "triggerEnable": true,
  "periodIntervalMin":,
  "onTheDotMin": ,
  "periodMode": ,
  "periodEnable": true,
  "dataRetransmissionEnable": false,
  "customizeReportEnable": false,
  "customizeDeviceInfo": ,
  "customizeTimeInfo":,
  "lineTriggerDataEnable": ,
  "regionTriggerData": ,
  "linePeriodicDataEnable":,
  "lineTotalData": -54200550,
  "regionPeriodicDataEnable": ,
  "lineRegionNameEnable":,
  "lineRegionUuidEnable":
},
"recipientID":,
"recipientName": ""
},
"method":,
"recipientID":,
"loraReportStrategy": {
  "periodEnable": true,
  "periodIntervalMin":
}
}
```

## 2.8 Reset People Counting Results

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/reset
```

### Request Method:

post method

Body

Parameter	Required	Types	Description
lines	Required	Number[]	Fill in the Line number
regions	Required	Number[]	Fill in the Region number

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
status	number	Status Value 0: Success ; Other code,: see detail content
detail	string	Return, 0: Success
transmit_cast	number	Processing time

**Request Example:**

```
{
"lines":[1,2,3,4],           //clean all lines countings  1,2,3,4
"regions":[0,1,2,3]       //clean all regions 0,1,2,3 countings
}
```

**Return Example:**

```
{
  "command": 103,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 2.9 Get installation Height

**Request URL:**

```
http://192.168.5.220:80/api/v1/counting/getRecommendedHeight
```

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
data	object	

netconfig	object	TCP/IP configuration for Ethernet Port
ipAddress	string	IP address
subnetMask	string	Subnet Mask

**Return Content Example:**

```
{
  "command": 11,
  "data": {
    "autoDetectHeight": 3239
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 202
}
```

## 2.10 Search Devices

**Request URL:**

<http://192.168.5.220:80/api/v1/system/searchDevices>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Type	Value
searchType	number	0: Search all devices 1: Node devices and haven't been added devices

**Return JSON parameter description:**

Parameter	Types	Description
command	number	
detail	string	
status	number	
Transmit_cast	number	

**Request Content Example:**

```
{
  "searchType": 0
}
```

```
}

```

**Return Content Example:**

```
{
  "command": 30,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 2.11 Get Search DeviceLists

**Request URL:**

```
http://192.168.5.220:80/api/v1/system/getSearchDeviceLists
```

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
command	number	
data	object	
deviceList	Object[]	
ipAddress	string	The IP address of device
deviceName	string	Device name
sn	string	Device SN
port	integer	
detail	string	
status	number	
Transmit_cast	number	

**Return Content Example:**

```
{
  "command": 31,
  "data": {
    "deviceList": [
```

```

    {
      "deviceName": "People Counter",
      "ipAddress": "192.168.46.80",
      "port": 80,
      "sn": "6757D16179950018"
    },
    {
      "deviceName": "People Counter",
      "ipAddress": "192.168.46.83",
      "port": 80,
      "sn": "6757D16866970013"
    },
    {
      "deviceName": "People Counter",
      "ipAddress": "192.168.46.90",
      "port": 80,
      "sn": "6757D16909050013"
    }
  ]
},
"detail": "ok",
"status": 0,
"transmit_cast": 1
}

```

## 2.12 Get Multi-devices Configuration

### Request URL:

<http://192.168.5.220:80/api/v1/counting/getCascadeConfig>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### Return JSON parameter description:

Parameter	Types	Description
command	number	
data	object	
cascadeMode	number	
masterConfig	string	
masterSettings	object	
lensParam	object	
fx	number	
fy	number	
zoom	number	
masterDeviceName	string	
masterSN	string	
slaveSettings	Object[]	
deployHeight	number	
lensParam	object	
relativeAngle	number	
relativeX	number	
relativeY	number	
slaveDeviceName	string	
slaveIPAddress	string	
slaveSN	string	
status	number	
detail	string	
status	number	
Transmit_cast	number	

### Return Content Example:

```
{
  "command": 122,
  "data": {
    "cascadeMode": 1,
    "masterConfig": {
      "masterSettings": {
        "lensParam": {
          "fx": 164.03338600000001,
          "fy": 164.00561500000001,
          "zoom": 1.1599999999999999
        },
        "masterDeviceName": "People_Counter_oem_test",

```



```
        "masterIPAddress": "192.168.46.79",
        "masterSN": "6757D32675210018"
    },
    "slaveSettings": [
        {
            "deployHeight": 3000,
            "lensParam": {
                "fx": 163.49337800000001,
                "fy": 163.44648699999999,
                "zoom": 1.1599999999999999
            },
            "relativeAngle": 0,
            "relativeX": 1495,
            "relativeY": 0,
            "slaveDeviceName": "People Counter",
            "slaveIPAddress": "192.168.46.80",
            "slavePort": 80,
            "slaveSN": "6757D16179950018",
            "status": 1
        },
        {},
        {}
    ]
}
},
"detail": "ok",
"status": 0,
"transmit_cast": 55
}
```

## 2.13 Set Multi-devices Configuration

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/setCascadeConfig
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

## Body

Parameter	Type	Required	Value
cascadeMode	number	Optional	0: standalone 1: master 2: node/slave
slaveConfig	object	Optional	Only effect at node/slave mode
control	string	Optional	0: bind 1: unbind
masterConfig	object	Optional	Only affect at master mode
slaveSettings	Object[]	Optional	
slaveIPaddress	string	Optional	
slavePort	integer	Optional	
slaveSN	string	Optional	
slaveDeviceName	string	Optional	
deployHeight	number	Optional	
relativeX	number	Optional	
relativeY	number	Optional	
relativeAngle	number	Optional	
slaveUsername	string	Optional	
slavePassword	string	Optional	

## Return JSON parameter description:

Parameter	Types	Description
command	number	
detail	string	
status	number	
Transmit_cast	number	

## Request Body Example:

```
{
  "slaveConfig": {
    "control": 1
  }
}
```

## Return Content Example:

```
{
  "command": 123,
}
```

```

"detail": "ok",
"status": 0,
"transmit_cast": 59
}

```

## 3. Communication

### 3.1 Get Network Configuration

#### Request URL:

<http://192.168.5.220:80/api/v1/system/getIpconfig>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

#### Return JSON parameter description:

Parameter	Types	Description
data	object	
netconfig	object	TCP/IP configuration for Ethernet Port
ipAddress	string	IP address
subnetMask	string	Subnet Mask
DefaultGateway	string	Default Gateway
MACAddress	string	MAC Address of Ethernet Port
MTU	string	MTU
PrimaryDNS	string	Primary DNS Server
SecondaryDNS	string	Secondary DNS Server
dhcp	string	
detail	string	Return Information
status	number	Status Value 0: Success

#### Return Example:

```
{
  "command": 10,
  "data": {
    "netconfig": {
      "DefaultGateway": "192.168.45.1",
      "MACAddress": "24:E1:24:FF:00:04",
      "MTU": "1500",
      "PrimaryDNS": "8.8.8.8",
      "SecondaryDNS": "114.114.114.114",
      "dhcp": "false",
      "ipAddress": "192.168.45.252",
      "subnetMask": "255.255.255.0"
    }
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 48
}
```

## 3.2 Set Network Configuration

### Request URL:

<http://192.168.5.220:80/api/v1/system/setIpconfig>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
netconfig	No	object	
dhcp	No	string	
ipAddress	No	string	
subnetMask	No	string	

DefaultGateway	No	string	
PrimaryDNS	No	string	
SecondaryDNS	No	string	

**Request Example:**

```
{
  "netconfig": {
    "ipAddress": "192.168.68.75",
    "DefaultGateway": "192.168.68.1",
    "PrimaryDNS": "8.8.8.8",
    "SecondaryDNS": "114.114.114.114"
  }
}
```

**Return JSON parameter description:**

Parameter	Types	Description
detail	string	Return Information
needReboot	boolean	
status	number	Status Value 0: Success

**Return Example:**

```
{
  "command": 11,
  "detail": "ok",
  "needReboot": true,
  "status": 0,
  "transmit_cast": 98
}
```

### 3.3 Get Playback Parameter

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getPlaybackParam>

**Request Method:**

post method

**Request JSON parameter description:**

## Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
command	number	
data	object	
recordDuration	number	Actual duration of the recording, measured in seconds
recordStartTime	string	Actual start time of the recording
recordStartTimestamp	string	Start timestamp of the recording, measured in milliseconds
recordStatus	number	Recording status: 0: No recording, 1: Recording in progress, 2: Recording completed, 3: Manually terminated, 4: Abnormally terminated
taskDuration	number	
taskEnable	boolean	
taskStartTime	string	
algoParam	object	Provided when video exists
areas	object	
detectLines	array[]	Item type: array
	string	Item type: string
lineNames	string[]	Item type: string
lineUuids	string[]	Item type: string
uturnArea	array[]	Item type: array
		Item type: string
childrenFilterEnable	boolean	
childFilterThreshold	number	
deploy	object	
angle	number	
height	number	
groupCountingEnable	boolean	
groupCountingNumMax	number	
heatmapEnable	boolean	
regionCounting	object	
enable	boolean	

regionParam	string[]	Item type: string
staffDetectSens	number	
staffIdentifyEnable	boolean	
staffIdentifyThreshold	number	
targets	object	
maxHeight	number	
minHeight	number	
trackMode	number	
uturnEnable	boolean	
cascadeConfig	object	Provided when video exists
masterConfig	object	
masterSettings	object	
lensParam	object	
fx	number	
fy	number	
zoom	number	
masterDeviceName	string	
masterIPAddress	string	
masterSN	string	
slaveSettings	object[]	Item type: object
deployHeight	number	
lensParam	object	
fx	number	
fy	number	
zoom	number	
relativeAngle	number	
relativeX	number	
relativeY	number	
slaveDeviceName	string	
slaveIPAddress	string	
slavePort	number	
slaveSN	string	
status	number	
detail	string	
status	number	
transmit_cast	number	

**Return Content Example:**

```
{
```

```
"command" : 20,
"data" : {
  "algoParam" : {
    "areas" : {
      "detectLines" : [
        [
          [ 25, 168 ],
          [ 247, 175 ]
        ],
        [
          [ 9, 166 ],
          [ 269, 160 ]
        ],
        [
          [ 14, 150 ],
          [ 251, 150 ]
        ],
        []
      ],
      "lineNames" : [ "Line1", "Line2", "Line3", "" ],
      "lineUuids" : [
        "00000000-4e40-6c87-bf46-9c309b7e93a7cbd6",
        "00000001-875e-a5d7-2566-921d7306a1222450",
        "00000002-8ea2-8f83-5e5c-34cdc5e72c5e82bd",
        ""
      ],
      "uturnArea" : [
        [
          [ 0, 119 ],
          [ 1, 214 ],
          [ 272, 218 ],
          [ 279, 104 ]
        ],
        [],
        [],
        []
      ]
    },
    "childrenFilterEnable" : true,
```



```
"childrenFilterThreshold" : 1999,
"deploy" : {
  "angle" : 0,
  "height" : 3190
},
"groupCountingEnable" : true,
"groupCountingNumMax" : 20,
"regionCounting" : {
  "enable" : true,
  "regionParam" : [
    {
      "coordinate" : [
        {
          "x" : -113,
          "y" : 53
        },
        {
          "x" : 123,
          "y" : 59
        },
        {
          "x" : 128,
          "y" : 250
        },
        {
          "x" : -111,
          "y" : 259
        }
      ]
    },
    {
      "dwelldetectEnable" : true,
      "index" : 0,
      "minDwellTime" : 3,
      "passByFiltering" : 5,
      "regionCountingEnable" : true,
      "regionName" : "Region1",
      "regionUuid" : "00000000-7b94-6b9c-2fe4-9f6fdc77da4a7fe4"
    }
  ],
  "coordinate" : [
```

```
        {
            "x" : 12,
            "y" : 43
        },
        {
            "x" : 9,
            "y" : 265
        },
        {
            "x" : 295,
            "y" : 267
        },
        {
            "x" : 291,
            "y" : 46
        }
    ],
    "dwellDetectEnable" : true,
    "index" : 1,
    "minDwellTime" : 5,
    "passByFiltering" : 5,
    "regionCountingEnable" : true,
    "regionName" : "Region2",
    "regionUuid" : "00000001-7ada-2060-a767-b407ccd1bfd16f37"
}
]
},
"staffDetectSens" : 5,
"staffIdentifyEnable" : true,
"staffIdentifyThreshold" : 500,
"targets" : {
    "maxHeight" : 2100,
    "minHeight" : 600
},
"trackMode" : 1,
"uturnEnable" : true
},
"cascadeConfig" : {
    "masterConfig" : {
```

```
"masterSettings" : {
  "lensParam" : {
    "fx" : 164.74299600000001,
    "fy" : 164.80600000000001,
    "zoom" : 1.1599999999999999
  },
  "masterDeviceName" : "",
  "masterIPAddress" : "",
  "masterSN" : ""
},
"slaveSettings" : [
  {},
  {
    "deployHeight" : 3000,
    "lensParam" : {
      "fx" : 163.49337800000001,
      "fy" : 163.44648699999999,
      "zoom" : 1.1599999999999999
    },
    "relativeAngle" : 0,
    "relativeX" : -2368,
    "relativeY" : -1963,
    "slaveDeviceName" : "People Counter",
    "slaveIPAddress" : "192.168.46.80",
    "slavePort" : 80,
    "slaveSN" : "6757D16179950018",
    "status" : 1
  },
  {
    "deployHeight" : 3200,
    "lensParam" : {
      "fx" : 164.927322,
      "fy" : 164.92567399999999,
      "zoom" : 1.1599999999999999
    },
    "relativeAngle" : 0,
    "relativeX" : -2614,
    "relativeY" : -245,
    "slaveDeviceName" : "People Counter",
```

```

        "slaveIPAddress" : "192.168.46.83",
        "slavePort" : 80,
        "slaveSN" : "6757D16866970013",
        "status" : 1
    }
]
}
},
"recordDuration" : 597,
"recordStartTime" : "2023-11-24T15:54:42.000",
"recordStartTimestamp" : "1700812482000",
"recordStatus" : 4,
"taskDuration" : 3600,
"taskEnable" : true,
"taskStartTime" : "2023-11-24T15:54:41.102"
},
"detail" : "ok",
"status" : 0,
"transmit_cast" : 42
}

```

### 3.4 Set Playback Parameter

#### Request URL:

<http://192.168.5.220:80/api/v1/counting/setPlaybackParam>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
playbackParam	Yes	object	
taskStartTime	Yes	string	Format: YYYY-MM-DDTHH:00:00.000

taskDuration	Yes	number	Unit: second
taskEnable	Yes	boolean	Task enablement
recordCtrl	Yes	boolean	0: No operation, 1: Stop recording, 2: Delete recording, 3: Start recording immediately

**Return JSON parameter description:**

Parameter	Types	Required	Description
command	number	Optional	
detail	string	Optional	
status	number	Optional	Configuration error, status returned as 1001. Memory is insufficient to write, status returned as 1002.
transmit_cast	number	Optional	

### 3.5 IP conflict detection test

**Request URL:**

<http://192.168.5.220:80/api/v1/system/testIpExist>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
ip	Yes	string	

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	
ipExist	boolean	Indicates whether IP addresses conflict. true indicates conflict. false indicates no conflict. When the target indicates no conflict, a 3-second ping delay is triggered
detail	string	

status	number	0: success
transmit_cast	number	Processing time

**Request Body Example:**

```
{
  {
    "ip": "192.168.60.183"
  }
}
```

**Return Example:**

```
{
  "command": 20,
  "data": {
    "ipExist": false
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 4079
}
```

## 3.6 Get Recipient Configuration

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getReportParam>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

Body

Parameter	Type	Required	Value
recipientID	Integer	Yes	1-6

**Return JSON parameter description:**

Parameter	Types	Description
data	object	Return data
recipientConfig	object	

protocolSetting	object	
reportProtocol	integer	
httpConfig	object	
password	number	
username	string	
targetUrl	string	
mqttConfig	object	
certificateType	number	0: CA 1: Self
clientCertExist	boolean	
clientKeyExist	string	
rootCertExist	boolean	
tlsEnable	string	
clientId	number	
qos	string	0: qos 0 1: qos 1 2: qos 2
host	number	
topic	boolean	
username	boolean	
password	string	
port	string	
periodEnable	boolean	
heartbeatEnable	boolean	0: close 1: open Only when periodEnable is true it works
periodIntervalMin	number	
reportProtocol	number	1: http 2: mqtt
triggerEnable	boolean	
resetCumulativeInfo	object	
enable	boolean	
wDay	number	
time	integer	
reportStrategy	integer	
periodEnable	boolean	

periodMode	integer	0: On the Dot 1: From now
onTheDotMin	integer	
periodIntervalMin	integer	
dataRetransmissionEnable	boolean	
customizeReportEnable	boolean	
customizeDeviceInfo	integer	Every bit as a enable status(0: close, 1: open) bit0: Device Name; bit1: Device SN; bit2: MAC; bit3: ip; bit4: device ID; bit5: custom site ID bit6: running time
customizeTimeInfo	integer	Every bit as a enable status(0: close, 1: open) bit0: Trigger Time; bit1: start time; bit2: end time; bit3: time zone; bit4: DST Enable; bit5: DST status
lineTriggerDataEnable	integer	
regionTriggerData	integer	Every bit as a enable status(0: close, 1: open) bit0: Region Count Data; bit1: Dwell Time Data; bit2: Dwell Start Time;
linePeriodicDataEnable	integer	
lineTotalData	integer	Every bit as a enable status(0: close, 1: open) bit0: Line Count Data; bit1: Capacity Counted;
regionPeriodicDataEnable	integer	
lineRegionNameEnable	integer	
lineRegionUuidEnable	integer	
recipientID	integer	Range 1~6, if 3 is deleted, creating a new one will re-use 3.



recipientName	integer	
loraReportStrategy	object	
periodEnable	boolean	
periodIntervalMin	integer	
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time

**Return Example:**

```
{
  "command": 117,
  "data": {
    "heartbeatEnable": false,
    "httpConfig": {
      "password": 0,
      "targetUrl": "http://3.82.15.129:3000/644675ffc22cf4590c52d1d2",
      "username": ""
    },
    "mqttConfig": {
      "certificateType": 0,
      "clientCertExist": false,
      "clientId": "",
      "clientKeyExist": false,
      "host": "",
      "password": 0,
      "port": "",
      "qos": 0,
      "rootCertExist": false,
      "tlsEnable": false,
      "topic": "",
      "username": ""
    },
    "periodEnable": true,
    "periodIntervalMin": 1,
    "reportProtocol": 1,
    "resetCumulativeInfo": {
      "enable": false,
      "time": 0,
      "wDay": 7
    }
  }
}
```

```

    },
    "triggerEnable": true
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}

```

### 3.7 Set Recipient Configuration

#### Request URL:

<http://192.168.5.220:80/api/v1/counting/setReportParam>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Types	Required	Description
recipientConfig	object	optional	
protocolSetting	object	optional	
reportProtocol	interger	optional	
httpConfig	object	optional	
password	number	optional	
username	string	optional	
targetUrl	string	optional	
mqttConfig	object	optional	
certificateType	number	optional	0: CA 1: Self
clientCertExist	boolean	optional	
clientKeyExist	string	optional	
rootCertExist	boolean	optional	
tlsEnable	string	optional	
clientId	number	optional	
qos	string	optional	0: qos 0 1: qos 1

			2: qos 2
host	number	optional	
topic	boolean	optional	
username	boolean	optional	
password	string	optional	
port	string	optional	
reportStrategy	integer	optional	
periodEnable	boolean	optional	
periodMode	integer	optional	0: On the dot 1: From now
onTheDotMin	integer	optional	
periodIntervalMin	integer	optional	
dataRetransmissionEnable	boolean	optional	
customizeReportEnable	boolean	optional	
customizeDeviceInfo	integer	optional	Report device information. Each bit to enable report different info (0: close, 1: open) bit0: Device Name; bit1: Device SN; bit2: MAC; bit3: ip; bit4: device ID; bit5: custom site ID bit6: running time
customizeTimeInfo	integer	optional	Report device information. Each bit to enable report different info (0: close, 1: open) bit0: Trigger Time; bit1: start time; bit2: end time; bit3: time zone; bit4: DST Enable; bit5: DST status
lineTriggerDataEnable	integer	optional	
regionTriggerData	integer	optional	Report device information. Each bit to enable report different info (0: close, 1:

			open) bit0: Region Count Data; bit1: Dwell Time Data; bit2: Dwell Start Time;
linePeriodicDataEnable	integer	optional	
lineTotalData	integer	optional	Report device information. Each bit to enable report different info (0: close, 1: open) bit0: Line Count Data; bit1: Capacity Counted;
regionPeriodicDataEnable	integer	optional	
lineRegionNameEnable	integer	optional	
lineRegionUuidEnable	integer	optional	
recipientID	integer	optional	1~6
recipientName	integer	optional	
method	integer	optional	0: add; 1: delete; 2: modify
loraReportStrategy	object	optional	
periodEnable	boolean	optional	
periodIntervalMin	integer	optional	

**Request Example:**

Parameter	Description
Detail	string
Status	Integer value

**Request Example:**

```
{
  "httpConfig": {
    "targetUrl": "http://192.168.5.220/",
    "username": "maylong",
    "password": "maylongtest"
  },
  "periodEnable": false,
  "periodIntervalMin": 20,
  "reportProtocol": 1,
  "triggerEnable": true
}
```

## 3.8 Get Recipient Parameter

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/getRecipientParam
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### Return JSON parameter description:

Parameter	Types	Description
detail	object	
status	number	
Transmit_cast	number	
data	object	
recipientInfo	Object[]	
recipientID	integer	
recipientName	string	
connectStatus	integer	1: Connected 0: Disconnected
address	string	url or host
reportProtocol	integer	

### Return Example:

```
{
  "command": 18,
  "data": {
    "recipientInfo": [
      {
        "address": "192.168.45.16",
        "connectStatus": 0,
        "recipientID": 4,
        "recipientName": "Recipient",
        "reportProtocol": 2
      },
      {
        "address": "192.168.45.16",
```

```

        "connectStatus": 0,
        "recipientID": 3,
        "recipientName": "Recipient",
        "reportProtocol": 1
    },
    {
        "address": "192.168.45.15",
        "connectStatus": 1,
        "recipientID": 2,
        "recipientName": "Recipient",
        "reportProtocol": 2
    },
    {
        "address": "http://192.168.45.12",
        "connectStatus": 0,
        "recipientID": 1,
        "recipientName": "Recipient",
        "reportProtocol": 1
    }
]
},
"detail": "ok",
"status": 0,
"transmit_cast": 1
}

```

### 3.9 Get Net Report Status

#### Request URL:

<http://192.168.5.220:80/api/v1/counting/updateNetReportStatus>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

#### Return JSON parameter description:

Parameter	Types	Description
command	number	
data	object	
netPortStatus	boolean	0: disconnected 1: connected
detail	string	
status	number	
Transmit_cast	number	

**Return Example:**

```
{
  "command": 12,
  "data": {
    "httpStatus": false,
    "mqttStatus": false
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

### 3.10 Update Net Report Status

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/updateNetReportStatus>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Type	Required	Description
event	String	Yes	Only support http, to update the upload type

**Return JSON parameter description:**

Parameter	Types	Description
command	number	

data	object	
httpStatus	boolean	
mqttStatus	boolean	
detail	string	
status	number	
Transmit_cast	number	

**Return Example:**

```
{
  "command": 12,
  "data": {
    "httpStatus": false,
    "mqttStatus": true
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 4. Report

### 4.1 Get People Counting Records

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/getRecords>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
timeStart	Yes	string	Get the start time of the record,



			Format:YYYY-MM-DDTHH:00:00.000
timeEnd	Yes	string	Get the end time of the record Format:YYYY-MM-DDTHH:00:00.000
Line	Yes	number	Range:1-4
timeUnit	No	number	0:hour 1:day 2:month
timeBinWidth	No	number	Interval for query, after this option is configured, the timeUnit field is invalid. Unit: min

**Request Example:**

```
{
  "timeStart": "2023-06-02T09:00:00",
  "timeEnd": "2023-06-02T09:15:00",
  "line":2,
  "timeBinWidth": 30
}
```

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Return Information
data	object []	Return data
accEnter	number	Total number of people leaving the zone during the specified period
accLeave	number	Total number of people leaving the zone during the specified period
records	object []	Entry and exit list
enter	number	Number of people entering the area at a certain point in time
leave	number	Number of people leaving the area at a certain point in time
childrenEnter	number	The number of children entering the area at this point in time
childrenLeave	number	The number of children leaving the area at this point in time
staffEnter	number	Number of employees entering the area at this point in time
staffLeave	number	Number of employees leaving the area at this point in time
time	string	The time of the entry and exit event,

		Format:YYYY-MM-01T00:00:00.000
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time

**Return Example:**

```
{
  "command": 0,
  "data": {
    "accEnter": 0,
    "accLeave": 3,
    "records": [
      {
        "childrenEnter":0,
        "childrenLeave":0,
        "staffEnter":0,
        "staffLeave":0,
        "enter": 0,
        "leave": 1,
        "time":"2007-04-07T23:18:14"
      },
      {
        "childrenEnter":0,
        "childrenLeave":0,
        "staffEnter":0,
        "staffLeave":0,

        "enter": 0,
        "leave": 1,
        "time":"2007-04-07T23:18:14"
      }
    ]
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 7
}
```

## 4.2 Get Counting Record Result

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/getRecordsResult
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
uuid	Yes	string	Unique ID, generated by the user.
event	Yes	number	

### Request Example:

```
{
  "uuid": "00000001-7090-6995-dd60-8f51d237d3aca50a",
  "event": 1
}
```

### Return JSON parameter description:

Parameter	Types	Description
command	number	Return Information
data	object []	Return data
event	number	0: Line crossing 1: Region search 2: dwell time detection
searchStatus	number	0: unmatched uuid result; 1: Waiting for searching 2: Updating 3: Data updating completely
lineRecords	object	When event is 0 ,and the searchstatus return value is 3,it will response
accChildrenEnter	number	
accChildrenLeave	number	
accEnter	number	

accLeave	number	Total number of people leaving the zone during the specified period
accStaffEnter	number	
accStaffLeave	number	
regionRecords	object	When event is 1, and the search status return value is 3, it will response
records	Object[]	
total	number	
staff	number	
children	number	
time	number	
totalCount	string	
dwelRecords	object	
records	Object[]	
total	number	
staff	number	
children	number	
time	number	
totalCount		
heatmap	object	
records	Object[]	
X	number	
Y	number	
value	number	
width	number	width of the heatmap data grid
height	number	Height of the heatmap data grid
max	number	The Maximum value of heatmap
min	number	The minimum value of heatmap
realMapWidth	number	Master mode: 1920, standalonemode: 320
realMapHeight	string	Master mode: 1440, standalonemode: 240
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time

**Return Example:**

```

{
  "command": 16,
  "data": {
    "event": 0,
    "searchStatus": 0
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}

```

### 4.3 Get DataRecord from Database

#### Request URL:

<http://192.168.5.220:80/api/v1/counting/getDatabseRecords>

#### Request Method:

post method

#### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Types	Required	Description
timeStart	string	Yes	Get the start time of the record, Format:YYYY-MM-DDTHH:00:00.000
uuid	string	Yes	The uuids must be the same with 4.2 generated
timeEnd	string	Yes	Get the end time of the record, Format:YYYY-MM-DDTHH:00:00.000
event	number	Yes	
lineParam	object	Yes	
line	number	Yes	The target line number
timeBinWidth	number	optional	The interval of query time, the unit is minute
timeUnit	number	optional	
regionCounting	object	Yes	
regionID	number	Yes	

dwellDetect	object	Yes	
regionID	number	Yes	
timeMin	number	Yes	
timeBinWidth	number	Yes	
numberOfBins	number	Yes	
heatmap	object	Yes	
type	number	Yes	

**Request Example:**

```
{
  "uuid": "00000001-7090-6995-dd60-8f51d237d3aca50a",
  "event": 1
}
```

**Return Example:**

```
{
  "command": 16,
  "data": {
    "event": 0,
    "searchStatus": 0
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}
```

## 5. System

### 5.1 Get hardware type

**Request URL:**

```
http://192.168.5.220:80/api/v1/system/getHardwareType
```

**Request Method:**

```
post method
```

**Request JSON parameter description:**

```
Headers
```

Parameter	Required	Value
-----------	----------	-------

Content-Type	Yes	application/x-www-form-urlencoded
--------------	-----	-----------------------------------

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	Return data
hardwaretype	number	hardwareType 1 indicates the poe version hardwareType 0 indicates the lora version
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time

**Return Example:**

```
{
  "command": 21,
  "data": {
    "hardwareType": 0
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 5.2 Get Device Information

**Request URL:**

<http://192.168.5.220:80/api/v1/system/getSystemInfo>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	Return data

deviceName	string	
ethMac	string	PoE only
gdprtipShow	boolean	
hardwareVer	string	
productModel	string	
sn	string	
softwareVer	string	
wlanMac	string	LoRa version only
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time
running_time	string	Unit: s

**Return Example:**

```
{
  "command": 58,
  "data": {
    "customizedDeviceID": "001",
    "customizedSiteID": "001",
    "deviceName": "People_Counter_oem_test",
    "ethMac": "24:E1:24:F5:73:16",
    "gdprtipShow": false,
    "hardwareVer": "V1.2",
    "productModel": "oem_test-P",
    "runningTime": 170073,
    "sn": "6757D32675210018",
    "softwareVer": "V_133.1.0.4-r2-a1"
  },
  "detail": "OK",
  "status": 0,
  "transmit_cast": 9
}
```

## 5.3 Set Device Information

**Request URL:**

<http://192.168.5.220:80/api/v1/system/setSystemInfo>



**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
deviceName	No	string	New device name
gdprtipShow	No	Boolean	display GDPR or not. True: will display False: won't display

**Request Example:**

```
{
  "deviceName": "MS-Tof",
  "gdprtipShow": false
}
```

**Return JSON parameter description:**

Parameter	Types	Description
detail	string	Return Information
status	number	Status Value 0: Success

**Return Example:**

```
{
  "command": 59,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 74
}
```

## 5.4 Get OEM Information

**Request URL:**
<http://192.168.5.220:80/api/v1/system/getOemInfo>
**Request Method:**

post method

**Request JSON parameter description:**

## Headers

Parameter	Required	Value
Content-Type	Yes	application/json

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	
oem	number	the number of oem version
oemload	boolean	oemload Indicates whether the oem is loaded. false indicates that the oem is not loaded. true indicates that the oem is loaded
title	string	tag name
detail	string	
status	number	0: success
transmit_cast	number	Processing time

**Example:**

```
{
  "command": 23,
  "data": {
    "oem": 0,
    "oemload": false,
    "title": "ToF People Counting Sensor"
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 5.5 To Check restart status

**Request URL:**

```
http://192.168.5.220:80/api/v1/counting/login
```

**Request Method:**

```
post method
```

**Request JSON parameter description:**

## Headers

Parameter	Required	Value
Content-Type	Yes	application/json

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
detail	string	ok
status	number	0 indicates that the restart is complete. You can refresh the page
transmit_cast	number	Processing time

**Example:**

```
{
  "command": 1,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 5.6 To Search System Log

**Request URL:**

<http://192.168.5.220:80/api/v1/system/searchLog>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
startTime	Yes	string	Start timestamp, measured in milliseconds
endTime	Yes	string	End timestamp, measured in milliseconds
logType	Yes	number	Log type, 0: Boot log

**Request Example:**

```
{
  "startTime": "0",
  "endTime": "1800211081920",
  "logType": 0
}
```

### Return JSON parameter description:

Parameter	Types	Description
command	number	
data	object	
log	Object[]	Item type: object
PowerOnTime	string	Boot time
ShutdownTime	string	Power outage time
detailId	number	
recordCount	number	Number of restarts, maximum display 1000
detail	string	
status	number	
transmit_cast	number	

### Return Example:

```
{
  "command": 40,
  "data": {
    "log": [
      {
        "PowerOnTime": "2023-11-22T10:35:49+08:00",
        "ShutdownTime": "2023-11-23T14:38:28+08:00",
        "detailId": 1
      },
      {
        "PowerOnTime": "2023-11-23T14:38:58+08:00",
        "ShutdownTime": "2023-11-24T14:13:57+08:00",
        "detailId": 2
      },
      {
        "PowerOnTime": "2023-11-24T14:14:12+08:00",
        "ShutdownTime": "2023-11-24T14:41:15+08:00",
        "detailId": 3
      }
    ]
  }
}
```

```
{
  "PowerOnTime": "2023-11-24T14:41:25+08:00",
  "ShutdownTime": "2023-11-24T15:32:57+08:00",
  "detailId": 4
},
{
  "PowerOnTime": "2023-11-24T15:33:09+08:00",
  "ShutdownTime": "2023-11-28T23:28:40+08:00",
  "detailId": 5
},
{
  "PowerOnTime": "2023-11-28T23:29:11+08:00",
  "ShutdownTime": "2023-11-28T23:31:45+08:00",
  "detailId": 6
},
{
  "PowerOnTime": "2023-11-28T23:32:10+08:00",
  "ShutdownTime": "2023-11-28T23:32:22+08:00",
  "detailId": 7
},
{
  "PowerOnTime": "2023-11-28T23:33:12+08:00",
  "ShutdownTime": "2023-11-28T23:33:54+08:00",
  "detailId": 8
},
{
  "PowerOnTime": "2023-11-28T23:34:08+08:00",
  "ShutdownTime": "2023-11-28T23:41:25+08:00",
  "detailId": 9
},
{
  "PowerOnTime": "2023-11-28T23:42:11+08:00",
  "ShutdownTime": "2023-11-28T23:42:23+08:00",
  "detailId": 10
},
{
  "PowerOnTime": "2023-11-28T23:43:10+08:00",
  "ShutdownTime": "2023-11-28T23:44:32+08:00",
  "detailId": 11
}
```

```

    }
  ],
  "recordCount": 11
},
"detail": "ok",
"status": 0,
"transmit_cast": 4
}

```

## 5.7 Get Device Time

### Request URL:

<http://192.168.5.220:80/api/v1/system/getTime>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### Return JSON parameter description:

Parameter	Types	Description
data	object	Return data
day	number	
hour	number	
min	number	
month	number	
sec	number	
usec	number	
year	number	
detail	string	Return Information
status	number	Status Value 0: Success Other: Failed

### Return Example:

```
{
```

```

"command": 123,
"data": {
  "day": 25,
  "hour": 3,
  "min": 27,
  "month": 4,
  "sec": 24,
  "usec": 880,
  "year": 2023
},
"detail": "ok",
"status": 0,
"transmit_cast": 0
}

```

## 5.8 Set Device Time

### Request URL:

<http://192.168.5.220:80/api/v1/system/setTime>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
year	Yes	number	Years
month	Yes	number	Months
day	Yes	number	Days
hour	Yes	number	Hours
min	Yes	number	Minutes
sec	Yes	number	Seconds
usec	Yes	number	μ s

### Request Example:

```

{
  "command": 123,

```

```

"data": {
  "day": 25,
  "hour": 3,
  "min": 27,
  "month": 4,
  "sec": 24,
  "usec": 880,
  "year": 2023
},
"detail": "ok",
"status": 0,
"transmit_cast": 0
}

```

## 5.9 Get NTP Configuration

### Request URL:

<http://192.168.5.220:80/api/v1/system/getNtpparam>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### Return JSON parameter description:

Parameter	Types	Description
command	number	Order number
data	object	Return data
enabled	string	
server_addr	string	
server_port	number	
time_zone	number	
update_cycle	number	
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time



**Return Example:**

```
{
  "command": 13,
  "data": {
    "enabled": "true",
    "server_addr": "pool.ntp.org",
    "server_port": 123,
    "time_zone": 14,
    "update_cycle": 1440
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 5.10 Set NTP Configuration

**Request URL:**

<http://192.168.5.220:80/api/v1/system/setNtpparam>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
NtpParam	No	object	
enabled	No	boolean	
server_addr	No	string	
server_port	No	number	
time_zone	No	string	
update_cycle	No	number	

**Request Example:**

```
{
  "NtpParam":
```

```
{
  "enabled": false,
  "server_addr": "abc.com",
  "server_port": 124,
  "time_zone": 39,
  "update_cycle": 60
}
```

**Return Example:**

```
{
  "command": 14,
  "detail": "recv data parse error",
  "status": -1,
  "transmit_cast": 0
}
```

## 5.11 Get Remote Management Configuration

**Request URL:**

<http://192.168.5.220:80/api/v1/system/getDeviceHub>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Description
command	number	Order number
data	object	Return data
authcode	string	
enable	boolean	
method	number	0 :Authorization code; 1 :Account password
password	string	
servername	string	

status	number	0 :Connection ;1 :connected ;2 :disconnected
username	string	
detail	string	Return Information
status	number	Status Value 0: Success
transmit_cast	number	Processing time

**Return Example:**

```
{
  "command": 0,
  "data": {
    "authcode": "ABCEFG",
    "enable": true,
    "method": 0,
    "password": "PASSWORD",
    "servername": "192.168.60.78",
    "status": true,
    "username": "ADMIN"
  },
  "detail": "OK",
  "status": 0,
  "transmit_cast": 26
}
```

## 5.12 Set Remote Management Configuration

**Request URL:**

<http://192.168.5.220:80/api/v1/system/setDeviceHub>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

Body

Parameter	Required	Types	Description
authcode	Yes	string	DeviceHub Authentication Code

enable	Yes	boolean	true: Enable false: Disable
method	Yes	number	0: By Authentication Code 1: By user account
password	Yes	string	Account password
servername	Yes	string	DeviceHub Sever Address
username	Yes	string	Account username

**Request Example:**

```
{
  "authcode": "ABCEFG",
  "enable": true,
  "method": 0,
  "password": "PASSWORD",
  "servername": "192.168.60.78",
  "username": "ADMIN"
}
```

## 5.13 Get WebHttp Config

**Request URL:**

<http://192.168.5.220:80/api/v1/system/setWebHttpConfig>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

**Return JSON parameter description:**

Parameter	Types	Description
data	object	
webHttp	object	
enable	boolean	0: close 1: open
port	integer	
webHttps	object	
port	integer	Range: 1~65535
certificateType	string	Selft-signed

		CA signed
certificateData	object	
country	string	
state	string	
locality	string	
organization	string	
commonName	string	
validityPeriodStart	string	
organizationUnit	string	
commonName	string	
validityPeriodStart	string	
validityPeriodEnd	string	
detail	string	
status	number	

**Request Example:**

```
{
  "command": 213,
  "data": {
    "webHttp": {
      "enable": true,
      "port": 80
    },
    "webHttps": {
      "certificateData": {
        "commonName": "People Counter",
        "country": "US",
        "locality": "Some Location",
        "organization": "Internet Widgits Pty Ltd",
        "organizationUnit": "Internet Widgits Pty Ltd",
        "state": "Some State",
        "validityPeriodEnd": "Oct 27 03:27:13 2024 GMT",
        "validityPeriodStart": "Sep 26 03:27:13 2023 GMT"
      },
      "certificateType": 0,
      "port": 443
    }
  },
  "detail": "OK",
  "status": 0,
}
```

```
"transmit_cast": 10
```

## 5.14 Set WebHttp Config

### Request URL:

```
http://192.168.5.220:80/api/v1/system/setDeviceHub
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

Body

Parameter	Types	Required	Description
webHttp	object	Optional	
enable	boolean	Optional	0: close 1: open
port	integer	Optional	
webHttps	object	Optional	
port	integer	Optional	Range: 1~65535
certificateType	string	Optional	0: Selft-signed 1: CA signed
certificateData	object	Optional	
country	string	Optional	
state	string	Optional	
locality	string	Optional	
organization	string	Optional	
organizationUnit	string	Optional	
commonName	string	Optional	
validityPeriodStart	string	Optional	
commonName	string	Optional	
validityPeriod	string	Optional	

### Request Example:

```
{
  "webHttp":{"enable":0}
}
```

## 5.15 Get DST Time

### Request URL:

<http://192.168.5.220:80/api/v1/system/getDst>

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### Return JSON parameter description:

Parameter	Types	Required	Description
command			
data	object	Yes	
dstBias	number	Yes	Offset time, default value is 60 Optional value: 30, 60, 90, 120
enabled	boolean	Yes	true: Enable false: Disable
start	object	Yes	
month	number	Yes	Month value: 1~12
mWeek	number	Yes	Week number: 1~5
wDay	number	Yes	Day of this Weekday: 0~6, means Sunday to Saturday
time	number	Yes	The Unit of time value is minute, so when time is "01:00", time value is 60
end	object	Yes	
month	number	Yes	Month value: 1~12
mWeek	number	Yes	Week number: 1~5
wDay	number	Yes	Day of this Weekday: 0~6, means Sunday to Saturday
time	number	Yes	The Unit of time value is minute, so when time is "01:00", time value is 60
detail			

status	number	Optional	
Tansmit_cast	number	Optional	Time zone, which is same with ntp interface value

**Return Content Example:**

```
{
  "command": 206,
  "data": {
    "dstBias": 60,
    "enabled": true,
    "end": {
      "mWeek": 5,
      "month": 10,
      "time": 180,
      "wDay": 0
    },
    "start": {
      "mWeek": 5,
      "month": 3,
      "time": 120,
      "wDay": 0
    },
    "time_zone": 8
  },
  "detail": "OK",
  "status": 0,
  "transmit_cast": 1
}
```

## 5.16 Set DST Time

**Request URL:**

<http://192.168.5.220:80/api/v1/system/setDst>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
-----------	----------	-------



Content-Type	Yes	application/json	
Body			
Parameter	Types	Required	Description
dstParam	object	Yes	
enabled	boolean	Yes	true: Enable false: Disable
start	object	Yes	
month	number	Yes	Month value: 1~12
mWeek	number	Yes	Week number: 1~5
wDay	number	Yes	Day of this Weekday: 0~6, means Sunday to Saturday
time	number	Yes	The Unit of time value is minute, so when time is "01:00", time value is 60
end	object	Yes	
month	number	Yes	Month value: 1~12
mWeek	number	Yes	Week number: 1~5
wDay	number	Yes	Day of this Weekday: 0~6, means Sunday to Saturday
time	number	Yes	The Unit of time value is minute, so when time is "01:00", time value is 60
dstBias	number	Yes	Offset time, default value is 60 Optional value: 30, 60, 90, 120
Time_zone	number	Yes	Time zone, which is same with ntp interface value

**Request Body Example:**

```
{
  "dstParam": {
    "enabled": true,
    "start": {
      "month": 3,
      "mWeek": 5,
      "wDay": 0,
      "time": 120
    },
    "end": {
      "month": 10,
      "mWeek": 5,
```

```

    "wDay":0,
    "time": 180
  },
  "dstBias":60,
  "time_zone": 8
}
}

```

## 6. System/Maintenance

### 6.1 Reboot device

**Request URL:**

<http://192.168.5.220:80/api/v1/system/reboot>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

### 6.2 Reset Configuration

Resetting device parameters requires sending the following two APIs:

Set camera info:

**Request URL:**

<http://192.168.5.220:80/api/v1/counting/restoreDefault>

**Request Method:**

post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

## Body

Parameter	Required	Types	Description
type	Yes	string	basic:-Simple reset ; all-Full reset

## Request Example:

```
{
  "type": "basic"
}
```

## 6.3 Reset Device

## Request URL:

<http://192.168.5.220:80/api/v1/system/resetConfig>

**Note:** All configuration will be reset and an automatic reboot will occur after a successful reset from version V\_133.1.0.5.

## Request Method:

post method

## Request JSON parameter description:

## Headers

Parameter	Required	Value
Content-Type	Yes	application/json

## Body

Parameter	Types	Description
type	string	basic:-Simple reset ; all-Full reset <b>Note:</b> All-Full reset needs entering the username and password, while the simple reset does not.
password	string	MD5(Message Digest Algorithm) of the current login password
username	string	MD5(Message Digest Algorithm) of the current login username

**Return JSON parameter description:**

Parameter	Types	Required	Description
command	number	Optional	
detail	string	Optional	
status	number	Optional	Returned status. Username or password, status returned as 1001. User does not exist, status returned as 1002.
transmit_cast	number	Optional	

## 6.4 Set Camera Frequency

**Request URL:**

```
http://192.168.5.220:80/api/v1/counting/setCameraInfo
```

**Request Method:**

Post method

**Request JSON parameter description:**

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
cameraParam	Yes	object	
workFreq	Yes	number	Configure the frequency of camera 0 : Modulation Mode A(99 MHz+18 MHz), 1 : Modulation Mode B(96 MHz+17 MHz) 2 : Modulation Mode C(97 MHz +17 MHz) 3: Modulation Mode D(101 MHz +18 MHz)

**Request Example:**

```
{
  "cameraParam": {
    "workFreq": 1
  }
}
```

**Return Example:**

```
{
  "command": 17,
  "detail": "ok",
  "status": 0,
  "transmit_cast": 0
}
```

## 6.5 Set Camera Info

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/restoreDefault
```

### Request Method:

post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/json

Body

Parameter	Required	Types	Description
type	Yes	string	basic:-Simple reset ; all-Full reset

### Request Example:

```
{
  "type": "basic"
}
```

## 6.6 Get Camera Frequency

### Request URL:

```
http://192.168.5.220:80/api/v1/counting/getCameraInfo
```

### Request Method:

Post method

### Request JSON parameter description:

Headers

Parameter	Required	Value
Content-Type	Yes	application/x-www-form-urlencoded

**Return JSON parameter description:**

Parameter	Types	Required	Description
command	number	Optional	
data	object	Optional	
cameraBinExist	boolean	Optional	To judge if the bin file has been uploaded
camerald	string	Optional	
workFreq	number	Optional	Work frequency: 0 ,1, 2, 3
workFreqLists	object	Optional	
0	string	Optional	Modulation Mode A (99 MHz+18 MHz)
1	string	Optional	Modulation Mode B (96 MHz+17 MHz)
2	string	Optional	Modulation Mode C (97 MHz +17 MHz)
3	string	Optional	Modulation Mode D (101 MHz +18 MHz)
camerald16	string	Yes	
detail	string	Optional	
status	number	Optional	
transmit_cast	number	Optional	

**Return Example:**

```
{
  "command": 8,
  "data": {
    "cameraBinExist": false,
    "camerald": "13090514",
    "workFreq": 0,
    "workFreqLists": {
      "0": "Modulation Mode A"
    }
  },
  "detail": "ok",
  "status": 0,
  "transmit_cast": 1
}
```