Passenger flow camera MQTT protocol command document

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1. Device management class

1.1 Set basic device information

1.1.1 Time settings

Sender	Data request device					
Recipient	Passenger flow equipment					
Command defini	ition					
Command	TO 1	. 1		i na massangan flavu davias		
description	The data reques	t device set	is the system	time to the passenger flow device		
	name	type	Maximu	Command description		
Command		type	m length	Communa description		
parameters	Command	int	4	Command: 1 101		
	SystemTime	string	100	yyyyMMddHHmmss format		
Command	name	type	Maximu	Returns a value description		
return value		3,71	m length			
(string, a key-				The parameters are as follows		
value pair that				{		
can be	result	JSON	255	"isError":		
converted to				"code":		
JSON).				"message":		
,				}		
	The sample para	ameters are	sent as follo	ws:		
	{					
Command	"Command":1101,					
usage	"SystemTime":"20190814175550"					
examples	}					
	The return example parameters are as follows:					
	{					

```
"result":{

"isError": false,

"code":"0",

"message": "Set device time successfully! "

}
```

1.1.2 Time Zone Settings

Sender	Data request device						
Recipient	Passenger flov	Passenger flow equipment					
Command defin	ition						
Command description	The data reques	t device se	ts the system	time zone to the passenger flow device			
Command	name	type	Maximu m length	Command description			
parameters	Command	int	4	Command: 1102			
	TimeZone	int	4	-12–13 time zone			
Command return value	name	type	Maximu m length	Returns a value description			
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
Command usage examples	The sample part { "Command" "TimeZone"	':1102,	e sent as follo	ws:			

```
The return example parameters are as follows:

{

    "result":{

     "isError": false,

     "code":"0",

     "message": "Set device time zone successfully! "

}

}
```

1.1.3 Time synchronization server settings

Sender	Data request device						
Recipient	Passenger flo	Passenger flow equipment					
Command defini	tion						
Command description	The data request device sets a time synchronization server to the passenger flow device						
Command	name type Maximu Command description m length						
parameters	Command	int	4	Command: 1103			
	TimeServer	string	100	Time synchronization server address			
Command	name	type	Maximu m length	Returns a value description			
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			

```
The sample parameters are sent as follows:

{

    "Command":1103,

    "TimeServer":"time.7x24s.com"

}

Command The return example parameters are as follows:

usage

examples "result":{

    "isError": false,

    "code":"0",

    "message": "Set time sync server successfully! "

}

}
```

1.1.4 OSD display information settings

Sender	Data request device				
Recipient	Passenger flow equ	ipment			
Command defi	nition				
Command	The data request de	vian anta tha	OSD diamles	winformation to the personner flow device	
description	The data request de	vice sets the	e OSD dispia	y information to the passenger flow device	
	name	name type Maximu Command description m length			
	Command	int	4	Command: 1104	
Command	ThesdStation	string	255	Point information	
parameters	SdTimeEnable	int	The enable time information displays: 0		
	SalimeEnable	int	4	not enabled, 1 enabled	
	ThesdPflowEnable	int	4	Enabled passenger count display: 0 not enabled, 1 enabled	

	SdStationEnable	int	4	The enable site information displays: 0 not enabled, 1 enabled	
Command	name	type	Maximu m length	Returns a value description	
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }	
Command usage examples	The sample parameters are sent as follows: { "Command":1104, "ThesdStation":"TestPoint", "ThesdPflowEnable":1, "ThesdPflowEnable":1 } The return example parameters are as follows: { "result":{ "isError": false, "code":"0", "message": "Set osd info successfully! " }				

1.1.5 RS485 information settings

Sender	Data request device
--------	---------------------

Recipient	Passenger flow eq	Passenger flow equipment				
Command defin	Command definition					
Command description	The data request de	vice sets RS4	185 informati	on to the passenger flow device		
	name	type	Maximu m length	Command description		
	Command	int	4	Command: 1105		
Command parameters	Protocol	int	4	Protocol Type: 0: Do not open the protocol 1: Current limiting LED protocol 2: Modbus protocol		
	BaudRate	int	4	baud rate		
	Address	int	4	Modbus address		
Command	name	type	Maximu m length	Returns a value description		
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		
Command usage examples	The sample parameters are sent as follows: { "Command":1105, "Address":100, "BaudRate":9600, "Protocol":0 } The return example parameters are as follows:					

```
"result":{
    "isError": false,
    "code":"0",
    "message": " Set rs485 info successfully! "
}
```

1.2 Acquisition of basic device information

1.2.1 Time zone acquisition

Sender	Data request device						
Recipient	Passenger flo	Passenger flow equipment					
Command defin	ition						
Command description	The data requ	est device ob	tains the syst	em time and time zone from the footfall device			
Command	name	type	Maximu m length	Command description			
parameters	Command	int	4	Command: 1201			
	name	type	Maximu m length	Returns a value description			
command return value (string, a key- value pair that can be converted to	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
JSON).	SystemTim e	string	100	yyyy-MM-dd HH:mm:ss 格式			

	TimeZone	string	32	-12–12 time zone, integer string
Command usage examples	The sample pa { "Con } The return ex { "result":{ "isError "code": "messag },	nmand":1201 cample paran ": false, "0", ge": "Get dev	sent as follow	ws: Follows: zone successfully! "

1.2.2 Time synchronization server acquisition

Sender	Data request device					
Recipient	Passenger flo	ow equipmen	nt			
Command defini	tion					
Command	The data req	uest device o	obtains a time	synchronization server from the passenger flow		
description	device					
Command	name	Maximu		Command description		
	name	type	m length	Command description		
parameters	Command	int	4	Command: 1201		
Command		Maxi		Detuma a color de coistico		
return value	name	type	m length	Returns a value description		
(string, a key-	14	ICON	255	The parameters are as follows		
value pair that	result	JSON	255	{		

can be				"isError":		
converted to				"code":		
JSON).				"message":		
				}		
	TimeServer	string	100			
	The sample pa	arameters are	e sent as follo	ws:		
	{					
	"Con	nmand":1202	2			
	}					
	The return example parameters are as follows:					
Command	{					
usage	"result":{					
examples	"isError": false,					
	"code":"0",					
	"message": "Get time sync server successfully! "					
	},					
	"TimeServer":"time.7x24s.com"					
	}					

1.2.3 Device SN acquisition

Sender	Data request device						
Recipient	Passenger f	low equipmen	nt				
Command defini	Command definition						
Command description	The data request device obtains the device SN from the passenger flow device						
Command	name	Maximu type Command description m length					
parameters	Command	int	4	Command: 1203			

Command	name	type	Maximu m length	Returns a value description	
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": true/false "code":"string" "message": "string" }	
	DeviceSN	string	32		
	The sample parameters are sent as follows: { "Command":1203 } The return example parameters are as follows:				
Command	{				
usage	"result":{				
examples	"isError": false, "code":"0", "message": "Get device sn successfully! " }, "DeviceSN": "1030001906250059" }				

1.2.4 Device MAC address acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command defini	tion			
Command	The data request device obtains the MAC address of the device from the			
description	passenger flow device			

Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 1204	
Command	name	type	Maximu m length	Returns a value description	
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": true/false "code":"string" "message": "string" }	
	MacAddr	string	32	,	
	The sample parameters are sent as follows: { "Command":1204 } The return example parameters are as follows:				
Command usage examples	{ "result":{ "isErro "code" "messa	or": false,	vice mac succ	cessfully! "	

1.2.5 Obtain the device firmware version number

Sender	Data request device
Recipient	Passenger flow equipment

Command definition							
Command	The data request device obtains the device firmware version number from the						
description	passenger flow device						
Comment			Maximu	Commendation			
Command	name	type	m length	Command description			
parameters	Command	int	4	Command: 1205			
	name	type	Maximu	Returns a value description			
Command	паше	туре	m length	Returns a value description			
return value				The parameters are as follows			
(string, a key-				{			
value pair that	result	JSON	255	"isError": true/false			
can be	resurt	35011	233	"code":"string"			
converted to				"message": "string"			
JSON).				}			
	FirmwareVer	string	32				
	The sample para	ameters are	e sent as follo	ows:			
	{						
	"Command":1205						
	}						
	The return exa	mple para	meters are as	follows:			
Command	{						
usage	"result":{						
examples	"isError":	false,					
	"code":"0)",					
	"message	": "Get de	vice firmwar	e version successfully! "			
	},						
	"FirmwareV	er": "V6.4	1.8"				
	}						

1.2.6 Device Type Acquisition

Sender	Data request device					
Recipient	Passenger flow equipment					
Command definition						
Command description	The data reque	est device	gets the devic	ce type from the passenger flow device		
Command	name	type	Maximu m length	Command description		
parameters	Command	int	4	Command: 1206		
	name	type	Maximu m length	Returns a value description		
Command return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": true/false "code":"string" "message": "string" }		
JSON).	DeviceType	string	32	Devices are divided into two types (int numeric strings): "1": 140° large wide angle equipment "2": 100° ordinary equipment.		
	The sample parameters are sent as follows:					
Command	"Comi	mand":120	6			
usage examples	The return example parameters are as follows: { "result":{					

```
"isError": false,

"code":"0",

"message": "Get device type successfully! "

},

"DeviceType": "1"
```

1.2.7 OSD display information acquisition

Sender	Data request device							
Recipient	Passenger flow equipment							
Command defini	Command definition							
Command description	The data request device obtains OSD display information from the passenger flow device							
Command	name	type	Maximu m length	Command description				
parameters	Command	int	4	Command: 1207				
	name	type	Maximu m length	Returns a value description				
Command return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": true/false "code":"string" "message": "string" }				
converted to	ThesdStation	string	255	Point information				
JSON).	SdTimeEnable	string	32	Enable time information display (int numeric string): "0": not enabled "1": Enable				

	ThesdPflowEnabl	string	32	Enable Passenger Count Display (int numeric string): "0": Not enabled "1": Enable
	SdStationEnable	string	32	Enable site information display (int numeric string): "0": Not enabled "1": Enable
Command usage examples	The sample parame { "Command } The return example { "result":{ "isError": false "code":"0", "message": "6 }, "SdPflowEnable "ThesdStation": "ThesdStationE "ThesdTimeEnable }	d":1207 de parame se, Get osd in e":"1", "TestPoin nable":"1	ters are as fol	lows:

1.2.8 RS485 protocol information acquisition

Sender	Data request device					
Recipient	Passenger flow equipment					
Command defini	ition					
Command	The data request device obtains RS485 protocol information from the passenger flow					
description	device					

Command	name	type	Maximum length	Command description		
parameters	Command	int	4	Command: 1208		
Command return value	name	type	Maximum length	Returns a value description		
(string, a key- value pair that can be	Protocol	string	32	Protocol Type: (int numeric string) "0": The protocol is not opened "1": Current limiting LED protocol "2": Modbus protocol		
converted to	BaudRate	string	32	Baud rate (int numeric string), e.g. "9600"		
JSON).	Address	string	32	modbus address (int numeric string), e.g. "1"		
Command	The sample parameters are sent as follows: { "Command":1208 } The return example parameters are as follows: { "result":{					
examples	"isError" "code":"(
cxamples			185 info succe	ssfully! "		
	},			·		
	"Address":"1	00",				
	"BaudRate":"9600",					
	"Protocol":"0"					
	}					

1.3 Device network information settings

1.3.1 Network parameter settings

Sender	Data request	Data request device					
Recipient	Passenger flo	Passenger flow equipment					
Command defin	Command definition						
Command	The data req	uest device so	ets the device	network parameters to the passenger flow			
description	device						
	name	type	Maximu m length	Command description			
	Command	int	4	Command: 1301			
Command parameters	NetType	string	32	Network Type Legal values are only "static" and "DHCP" A valid IP, subnet mask, and gateway are required only when set to static			
	Ip	string	32	Network IP address (optional, required when staic).			
	SubnetMask	string	32	Subnet mask (optional, required when staic).			
	Gateway	string	32	Gateway (optional, required when staic).			
	DNS1	string	32	Primary DNS (optional)			
	DNS2	string	32	Backup DNS (optional)			
Command return value	name	type	Maximu m length	Returns a value description			
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			

```
The sample parameters are sent as follows:
                    "Command":1301,
                    "NetType":"static",
                    "Ip":"192.168.1.100",
                    "SubnetMask":"255.255.255.0",
                    "Gateway":"192.168.1.1",
                    "DNS1":"192.168.1.1",
Command
                    "DNS2":"192.168.1.2"
usage
                  }
examples
                  The return example parameters are as follows:
                    "result":{
                       "isError": false,
                       "code":"0",
                       "message": "Set net param successfully! "
```

1.4 Device network information acquisition

1.4.1 Network parameter acquisition

Sender	Data request device					
Recipient	Passenger flo	Passenger flow equipment				
Command defini	mand definition					
Command	The data request device obtains the device network parameters from the passenger					
description	flow device					
Command		Maximu				
parameters	name	type	m length	Command description		

	Command	int	4	Command: 1401
	name	type	Maximu m length	Returns a value description
	NetType	string	32	Network type, legal values are only "static" and "DHCP"
Command	Ip	string	32	Network IP address
return value	SubnetMask	string	32	Subnet mask
(string, a key-	Gateway	string	32	gateway
value pair that	DNS1	string	32	Primary DNS
can be	DNS2	string	32	Back up DNS
converted to				The parameters are as follows
JSON).	result	JSON	255	<pre>{ "isError": "code": "message": }</pre>
Command usage examples	The return end of the return e	nmand":1401 xample paran r": false, "0",	neters are as f	
		168.1.100",		

```
"SubnetMask":"255.255.255.0",

"Gateway":"192.168.1.1",

"DNS1":"192.168.1.1",

"DNS2":"192.168.1.2"

}
```

1.5 Equipment maintenance and upgrade

1.5.1 Restart the device

Sender	Data request	Data request device				
Recipient	Passenger flo	Passenger flow equipment				
Command defini	ition					
Command description	The data requ	est device set	s a restart to	the passenger flow device		
Command parameters	name	type	Maximu m length	Command description		
parameters	Command	int	4	Command: 1501		
Command	name	type	Maximu m length	Returns a value description		
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		
Command usage examples	The sample parameters are sent as follows: { "Command":1501 }					

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "Reboot device successfully! "

     }

}
```

1.5.2 Restore the default passenger flow parameters

Sender	Data request device				
Recipient	Passenger fl	ow equipmen	t		
Command defini	ition				
Command	The data req	uest device re	estores the de	fault passenger flow parameters to the passenger	
description	flow device s	ettings			
Command	name	name type Maximu Command description m length			
•	Command	int	4	Command: 1502	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key-value pair that can be converted to JSON).	result	JSON 255 The parameters are as follows { "isError": "code": "message": }			
Command	The sample p	The sample parameters are sent as follows:			
usage	{				
examples	"Cor	nmand":1502			

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "PassengerFlow param reset successfully! "

     }

}
```

1.5.3 Clear passenger flow data

Sender	Data request	Data request device				
Recipient	Passenger flo	Passenger flow equipment				
Command defini	Command definition					
Command	Command The data request device clears the passenger flow data to the passenger flow device					
description	settings					
Command	name	e type Maximu Command description m length				
parameters	Command	int	4	Command: 1503		
Command	name	Maximu type m length		Returns a value description		
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		

```
The sample parameters are sent as follows:

{

    "Command":1503
}

The return example parameters are as follows:

Command

usage

examples

"result":{

    "isError": false,

    "code":"0",

    "message": "PassengerFlow data reset successfully! "

    }

}
```

1.5.4 Device Upgrade Settings

Sender	Data request device				
Recipient	Passenger flow equip	ment			
Command defir	nition				
Command description	The data request device sets the upgrade information to the passenger flow device				
Command	name	type	Maximu m length	Command description	
	Command	int	4	Command: 1504	
parameters	Link	string	-	Upgrade firmware link	
	MD5	string	32	Upgrade the firmware MD5 value	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key-				The parameters are as follows	
value pair that	result	JSON	255	{ "isError":	

```
converted to
                                                              "code":
JSON).
                                                              "message":
                The sample parameters are sent as follows:
                    "Command":1504,
                    "Link": "http://ip. test.zip",
                    "MD5":"a92bae990bdd42864277524a5ac7410a"
Command
                 The return example parameters are as follows:
usage
examples
                   "result":{
                      "isError": false,
                      "code":"0",
                      "message": "Firmware param set successfully! "
```

2. Passenger flow statistics

2.1 Passenger flow basic parameter setting

2.1.1 Height setting

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command				
description	The data request device sets the height to the passenger flow device			

	name	type	Maximu m length	Command description Command: 2101
	DetectionHeight	int	4	Detect a highly legal range Large wide angle equipment: 190cm~350cm Ordinary equipment: 220cm~600cm
Command	FilterHeight	int	4	Filter height Legal range 0-150 unit cm
parameters	RotateDirection	int	4	The legal range of rotation direction is 0-3 0: X-axis 1:Y 轴 2: X-axis aisle 3: Y-axis aisle
	RotateAngle	float	4	Legal range of rotation angle Large wide-angle equipment: 0~20 degrees Ordinary equipment: 0~50 degrees
Command	name	type	Maximu m length	Returns a value description
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
Command	The sample paran	neters are sen	t as follows:	
usage	"Command":2	101		
examples	"DetectionHei	ight":300,		

```
"RotateDirection":0,

"RotateAngle":0.0

}

The return example parameters are as follows:

{

    "result":{

    "isError": false,

    "code":"0",

    "message": "Set height param successfully! "

    }

}
```

2.1.2 Detection locale

Sender	Data request device			
Recipient	Passenger flow equ	ipment		
Command defi	nition			
Command description	The data request device sets the detection area to the passenger flow device			
	name	type	Maximu m length	Command description
	Command	int	4	Command: 2102
	LeftUpPointX	int	4	The starting coordinate X of the upper-left corner of the detection area
Command	LeftUpPointY	int	4	The starting coordinate of the upper left corner of the detection area is Y
	RightUpPointX	int	4	The starting coordinate X in the upper right corner of the detection area
	RightUpPointY	int	4	The starting coordinate Y in the upper right corner of the detection area

	RightDownPointX	int	4	The starting coordinate X of the lower right corner of the detection area
	RightDownPointY	int	4	The starting coordinate Y of the lower right corner of the detection area
	LeftDownPointX	int	4	The starting coordinate X of the lower left corner of the detection area
	LeftDownPointY	int	4	The starting coordinate of the lower left corner of the detection area is Y
Command return value	name	type	Maximu m length	Returns a value description
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
Command usage examples	The sample parameters are sent as follows: { "Command":2102, "LeftUpPointX": 260, "LeftUpPointY": 180, "RightUpPointX": 340, "RightUpPointY": 180, "RightDownPointX": 360, "RightDownPointX": 240, "LeftDownPointX": 240, "LeftDownPointY": 240 } The return example parameters are as follows:			

```
"result":{
    "isError": false,
    "code":"0",
    "message": " Set detection area successfully "
}
```

2.1.3 Detection line settings

Sender	Data request device					
Recipient	Passenger flow 6	equipment				
Command defi	nition					
Command description	The data request	The data request device sets the detection line to the passenger flow device				
	name	type	Maximu m length	Command description		
	Command	int	4	Command: 2103		
	DetectionLine	int	4 bytes	Note: The pixel value of the detection line in the left image of the camera, when the value is 0, it means that the polyline mode is set.		
Command	PIX	int	4 bytes	The first point X coordinate (required in polyline mode).		
	PIY	int	4 bytes	The first point Y coordinate (required for polyline mode).		
	P2X	int	4 bytes	The second point X coordinate (required for polyline mode).		
	P2Y	int	4 bytes	The second point Y coordinate (required for polyline mode).		

	P3X	int	4 bytes	The third point X coordinate (required for polyline mode).
	P3Y	int	4 bytes	The 3rd point Y coordinate (required in polyline mode).
	P4X	int	4 bytes	The 4th point X coordinate (required for polyline mode).
	P4Y	int	4 bytes	The 4th point Y coordinate (required for polyline mode).
Command return value	name	type	Maximu m length	Returns a value description
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
Command usage examples	The sample parameters are sent as follows: { "Command":2103, "DetectionLine":"0", "P1X":"130", "P1Y":"219", "P2X":"221", "P2Y":"219", "P3X":"495", "P3Y":"219", "P4X":"587", "P4Y":"250" }			

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "Set detection line successfully! "

}

}
```

2.1.4 Detection direction setting

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defi	Command definition				
Command description	The data request device sets the detection direction to the passenger flow device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2104	
	DetectionDirection	int	4 bytes	0 : Reverse 1 : Forward	
Command	name	type	Maximu m length	Returns a value description	
return value (string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }	

```
The sample parameters are sent as follows:

{

    "Command":2104,
    "DetectionDirection":0

}

Command

usage

examples

The return example parameters are as follows:

result

{

    "isError": false,
    "code":"0",
    "message": "Set detection direction successfully! "

}
```

2.1.5 Detection switch settings

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defin	Command definition				
Command description	The data request device sets the detection switch to the passenger flow device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2105	
	DetectionSwitch	int	4	0 : Detection off 1 : Detection on	
Command	name	type	Maximu m length	Returns a value description	
return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code":	

converted to	"message":			
JSON).	}			
	The sample parameters are sent as follows:			
	{			
	"Command":2105,			
	"DetectionSwitch":0			
	}			
Command	The return example parameters are as follows:			
usage	{			
examples	"result":{			
	"isError": false,			
	"code":"0",			
	"message": "Set detection switch successfully! "			
	}			
	}			

2.1.6 Http JSON parameter setting

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defin	Command definition				
Command description	The data request device sets HTTP JSON parameters to the passenger flow device				
	name	type	Maximu m length	Command description	
	Command	int	4	Command: 2106	
Command	Server1	string	-	The server address of Data Push 1	
	Port1	int	4	The port number of Data Push 1	
	Interval1	int	4	The push interval for data push 1	
	Enable1	init	4	Enable flag for data push 1	

	Server2	string	-	The server address of Data Push 2	
	Port2	int	4	The port number of Data Push 2	
	Interval2	int	4	The push interval for data push 2	
	Enable2	init	4	Enable flag for Data Push 2	
Command	name	type	Maximu	Returns a value description	
return value	name	турс	m length	Returns a value description	
(string, a key-				The parameters are as follows	
value pair that				{	
can be	result	JSON	255	"isError":	
converted to				"code":	
JSON).				"message":	
				}	
	The sample parameters are sent as follows:				
	{				
	"Command":2106,				
	"Server1":"192.168.8.101", "Port1":5001,				
	"Interval1":11,	terval1":11,			
	"Enable1":0,				
Command	"Server2":"192.168.8.102",				
usage	"Port2":5002,				
examples	"Interval2":12, "Enable2":0				
	The return example parameters are as follows: { "result":{ "isError": false, "code":"0",				

```
"message": "Set http json param successfully! "
}
```

2.1.7 HTTP XML parameter settings

Sender	Data request device						
Recipient	Passenger flow ed	Passenger flow equipment					
Command defir	nition						
Command description	The data request device sets HTTP XML parameters to the passenger flow device						
	name	type	Maximu m length	Command description			
	Command	int	4	Command: 2107			
Command	PostUrl	string	-	The data address of the data push			
	HeartUrl	string	-	The heartbeat address of the data push			
parameters	DeviceId	string	20	The device ID of the data push			
	Interval	int	4	The push interval for data push			
	IntervalMode	int	4	Data push interval mode			
	RealTimeMode	int	4	Real-time mode of data push			
Command	name	type	Maximu m length	Returns a value description			
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			

```
The sample parameters are sent as follows:
                 "Command":2107,
                 "PostUrl":"http://192.168.8.107:5002/api/camera/dataUpload",\\
                 "HeartUrl": "http://192.168.8.107:5002/api/camera/heartBeat",\\
                 "DeviceId":"2010012112250305",
                 "Interval":2,
                 "IntervalMode":0,
Command
                 "RealTimeMode":0
usage
                 }
examples
                 The return example parameters are as follows:
                  {
                    "result":{
                      "isError": false,
                      "code":"0",
                      "message": "Set http xmlparam successfully"
```

2.1.8 Aisle mode settings

Sender	Data request device				
Recipient	Passenger flow e	quipment			
Command defir	nition				
Command description	The data request device sets the aisle mode to the passenger flow device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2108	

	Enable	int	4	0 : Turn off aisle mode 1 : Turn on aisle mode	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }	
Command usage examples	The sample parameters are sent as follows: { "Command":2108, "Enable":0 } The return example parameters are as follows: { "result":{ "isError": false, "code":"0", "message": "Set corridor mode successfully! " }				

2.1.9 Background check setting on the left

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				

Command	The data request device sets the background check mode of the left figure to the					
description	passenger flow device					
	name	type	Maximu m length	Command description		
Command	Command	int	4	Command: 2109		
parameters	Enable	int	4	0 : Turn off the left background check 1 : Enable the background check on the left		
Command	name	type	Maximu m length	Returns a value description		
return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code":		
JSON).				"message": }		
Command usage examples	The sample parameters are sent as follows: { "Command":2109, "Enable":0 } The return example parameters are as follows: { "result":{ "isError": false,					
	"code":"0", "message": }	" Set left ima	ge check suc	cessfully! "		

2.1.10 Polyline mode settings

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defir	nition				
Command description	The data request o	device sets th	1e polyline m	ode to the passenger flow device	
Camanad	name	type	Maximu m length	Command description	
Command	Command	int	4	Command: 2110	
parameters	Enable	int	4	0 : Turn off polyline mode	
	Linuore	IIIC	7	1 : Turn on polyline mode	
Command	name	type	Maximu m length	Returns a value description	
return value (string, a key-				The parameters are as follows {	
value pair that	result	JSON	255	"isError": "code":	
JSON).				"message":	
	The sample paran	l neters are sen	t as follows:		
	{	:2110,			
Command	"Enable":0				
usage	}				
examples	The return example parameters are as follows:				
	{				
	"result":{				
	"isError": f	alse,			

```
"code":"0",

"message": " Set broken line successfully! "

}
```

2.1.11 Reverse connection settings

Sender	Data request device						
Recipient	Passenger flow e	Passenger flow equipment					
Command defir	nition						
Command description	The data request d	levice sets th	e reverse coi	nnection mode to the passenger flow			
	name	type	Maximu m length	Command description			
Command	Command	int	4	Command: 2109			
parameters	Enable	int	4	0 : Close the reverse connection 1 : Enable reverse connection			
Command	name	type	Maximu m length	Returns a value description			
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
	The sample parameters are sent as follows:						
Command usage examples	{ "Command": "Enable":0	2111,					

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "Set reverse connect successfully! "

}

}
```

2.1.12 Kids Mode Settings

Sender	Data request device					
Recipient	Passenger flow equipment					
Command defir	nition					
Command	The data request of	levice sets th	e backgroun	d check mode of the left figure to the		
description	passenger flow	w device				
	name	type	Maximu m length	Command description		
Command	Command	int	4	Command: 2112		
parameters	Enable	int	4	0 : Turn off Kids Mode 1 : Turn on Kids Mode		
	Threshold	int	4	Children's height threshold, in cm		
Command return value	name	type	Maximu m length	Returns a value description		
(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		

```
The sample parameters are sent as follows:

{

    "Command":2112,

    "Enable":0,

    "Threshold":150

}

Command

usage

examples

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "Set child mode successfully! "

    }

}
```

2.1.13 Stay count settings

Sender	Data request device					
Recipient	Passenger flow e	quipment				
Command defin	nition					
Command		ı ·		to the messanger flow device		
description	The data request device sets the dwell mode to the passenger flow device					
	name	type	Maximu	Command description		
			m length	Command description		
Command	Command	int	4	Command: 2109		
	Enable	int	4	0 : Count of dwellings turned off		
parameters	Enable	int	4	1 : Turn on the number of dwell counts		
	StoriTimo	int	4	Dwell time threshold, in seconds. The		
	StayTime	1111	4	number of people who stay longer than		

				this threshold is counted as the number of		
				stays.		
Command	name	type	Maximu	Returns a value description		
return value			m length			
(string, a key-				The parameters are as follows		
value pair that				{		
can be	result	JSON	255	"isError":		
converted to	resurt	3501	233	"code":		
				"message":		
JSON).				}		
	The sample param	neters are sent	t as follows:			
	{					
	"Command":2113,					
	"Enable":0,					
	"StayTime":15					
	}					
Command	The return exam	ple paramete	rs are as follo	ws:		
usage	{					
examples						
	"result":{					
	"isError": false,					
	"code":"0",					
	"message":	"Set stay per	son successfu	lly! "		
	}					
	}					

2.1.14 Image parameter settings

Sender	Data request device		
Recipient	Passenger flow equipment		
Command definition			

Command description	The data request device sets image parameters to the passenger flow device				
	name	type	Maximu m length	Command description	
	Command	int	4	Command: 2114	
Command	DesiredBrightness	int	4	The image expects brightness, the range is 0~255	
	GrayValueThreshold	int	4	Grayscale map threshold, the range is 0~255. The change value needs to be less brighter than the image expects.	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key-value pair that can be converted to JSON).	result	JSO N	255	The parameters are as follows { "isError": "code": "message": }	
Command usage examples	The sample parameters are sent as follows: { "Command":2114, "DesiredBrightness":90, "GrayValueThreshold":70 } The return example parameters are as follows: { "result":{ "isError": false, "code":"0",				

```
"message": " Set image param successfully! "
}
```

2.1.15 IO delay setting

Sender	Data request device						
Recipient	Passenger flow equipment						
Command defin	Command definition						
Command description	The data request device	The data request device sets the IO delay to the passenger flow device					
	name	type	Maximu m length	Command description			
Command	Command	int	4	Command: 2114			
parameters	OpenDelay	int	4	Open delay in seconds			
	CloseDelay	int	4	Off delay in seconds			
Command	name	type	Maximu m length	Returns a value description			
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
Command usage examples	The sample parameters are sent as follows: { "Command":2115, "OpenDelay":10, "CloseDelay":10 }						

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": " Set io delay successfully! "

    }

}
```

2.2 Acquisition of basic parameters of passenger flow

2.2.1 Altitude parameter acquisition

Sender	Data request device					
Recipient	Passenger flow eq	uipment				
Command defini	ition					
Command description	The data request device obtains the height parameter from the passenger flow device					
Command	name	type	Maximu m length	Command description		
parameters	Command	int	4	Command: 2201		
Command	name	type	Maximu m length	Returns a value description		
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		

	DetectionHeight FilterHeight RotateDirectionV	string	32	To detect a highly legal range (int numeric string): Large wide angle equipment: 190cm~350cm Ordinary equipment: 220cm~600cm Filter height Legal range 0-150 unit cm The rotation direction legal range 0-3 (int numeric string): "0": x-axis
	alue	string	32	"1":y 轴 "2": X-axis aisle "3": Y-axis aisle
	RotateAngleValu e	string	32	Rotation angle legal range (int numeric string): Large wide-angle equipment: 0~20 degrees Ordinary equipment: 0~50 degrees
Command usage examples	The sample parameter { "Command } The return example { "result":{ "isError": false "code":"0", "message": "0 }, "DetectionHeight":"1 "RotateDirection"	d":2201 e paramet se, Get height "": "300",	ters are as fol	lows:

"RotateAngleValue":"1.5"
}

2.2.2 Detection area range acquisition

Sender	Data request device						
Recipient	Passenger flow equipment						
Command definition							
	The data request dev	vice obtain	ns the legal ra	ange of the detection area corresponding to			
Command	the current height from	m the pas	senger flow d	levice (different detection heights			
description	correspond to differen	nt detection	on ranges, and	d the detection range should be obtained and			
	reset after the detection	on height	is set)				
			Maximu				
Command	name	type	m length	Command description			
parameters	Command	int	4	Command: 2202			
	name	4	Maximu	Detumo a color de coietico			
		type	m length	Returns a value description			
	LeftUpPointX	string	32	The x-coordinate (int numeric string) in			
				the upper left corner			
Command	L-fallaD-ia4V	_4	22	Y coordinate (int numeric string) in the			
return value	LeftUpPointY	string	32	upper left corner			
(string, a key-	RightUpPointX	atnin a	32	The X coordinate (int numeric string) in			
value pair that	RightOpFollitA	string	32	the upper right corner			
can be	D. Latin . W		22	Y coordinate (int numeric string) in the			
converted to	RightUpPointY	string	32	upper right corner			
JSON).	Dislados Di W	:	22	The x-coordinate (int numeric string) in			
	RightDownPointX	string	32	the lower right corner			
	DightDow-D-intV	atmi	22	Y coordinate (int numeric string) in the			
	RightDownPointY	string	32	lower right corner			

	LeftDownPointX	string	32	Bottom left x coordinate (int numeric string).				
	LeftDownPointY	string	32	Y coordinate (int numeric string) in the lower left corner				
				The parameters are as follows				
				{				
	result	JSON	255	"isError":				
	result	JON	233	"code":				
				"message":				
				}				
	The sample parameter	rs are sen	t as follows:					
	{							
	"Command":2202 } The return example parameters are as follows: { "result":{							
Command	"isError": false, "code":"0",							
usage	"message": "Get detection area range successfully! "							
examples	},		_					
	"LeftUpPointX"	:"260",						
	"LeftUpPointY"	:"180",						
	"RightUpPointX	":"340",						
	"RightUpPointY	":"180",						
	"RightDownPoir	ntX":"360)",					
	"RightDownPoir	ntY":"240)",					
	"LeftDownPointX":"260",							
	"LeftDownPoint	Y":"240"		"LeftDownPointY":"240"				

}
Remark:
The relevant parameters of the detection area are all based on the 640*400
pixels on the left

2.2.3 Detection area acquisition

Sender	Data request device						
Recipient	Passenger flow equipment						
Command defin	ition						
Command description	The data request dev	vice obtai	ns the detection	n area from the passenger flow device			
Command	name	type	Maximum length	Command description			
parameters	Command	int	4	Command: 2203			
	name	type	Maximum length	Returns a value description			
	LeftUpPointX	string	32	The x-coordinate (int numeric string) in the upper left corner			
Command return value	LeftUpPointY	string		Y coordinate (int numeric string) in the upper left corner			
(string, a key- value pair that	RightUpPointX	string	32	The X coordinate (int numeric string) in the upper right corner			
can be	RightUpPointY	string	32	Y coordinate (int numeric string) in the upper right corner			
JSON).	RightDownPointX	string	32	The x-coordinate (int numeric string) in the lower right corner			
	RightDownPointY	string	32	Y coordinate (int numeric string) in the lower right corner			

	LeftDownPointX	string	32	Bottom left x coordinate (int numeric string).			
	LeftDownPointY	string	32	Y coordinate (int numeric string) in the lower left corner			
				The parameters are as follows			
				{			
				"isError":			
	result	JSON	255	"code":			
				"message":			
				}			
	The sample paramete	rs are sen	t as follows:				
	{						
	"Command":2203						
	}						
	The return example parameters are as follows:						
	{ "result":{						
	"isError": false,						
Command	"code":"0",						
usage	"message": "Get detection area successfully! "						
examples	},						
	"LeftUpPointX"	:"260",					
	"LeftUpPointY"	:"180",					
	"RightUpPointX	:":"340",					
	"RightUpPointY	":"180",					
	"RightDownPoir	ntX":"360)",				
	"RightDownPoir	ntY":"240	",				
	"LeftDownPointX":"260",						
	"LeftDownPoint	Y":"240"					

2.2.4 Detection line range acquisition

Sender	Data request device						
Recipient	Passenger flow equipment						
Command definition							
Command description	(Note: Each ti	The data request device obtains the detection line range from the passenger flow device (Note: Each time the detection area is set, the detection line range will be changed, so the detection line range needs to be obtained and reset)					
Command	name	type	Maximu m length	Command description			
parameters	Command	int	4	Command: 2204			
	name	type	Maximu m length	Returns a value description			
Command return value (string, a key- value pair that	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
can be converted to JSON).	DetectionLi neMin	string	32	Detection line minimum (int numeric string): The minimum value of the detection line in the Y coordinate on the left figure			
	DetectionLi neMax	string 32		Detection line maximum (int numeric string): The maximum value of the detection line in the Y coordinate on the left figure			
Command	The sample parameters are sent as follows:						
examples	"Command":2204						

```
The return example parameters are as follows:

{

    "result":{

        "isError": false,

        "code":"0",

        "message": "Get detection line range successfully!"

},

"DetectionLineMin": "100",

"DetectionLineMax": "300"

}
```

2.2.5 Detection line acquisition

Sender	Data request d	Data request device						
Recipient	Passenger flov	Passenger flow equipment						
Command defin	ition							
Command	The data reque	est device o	btains the loc	ation of the detection line from the passenger				
description	flow device							
Command	name	type	Maximu m length	Command description				
parameters	Command	ommand int		Command: 2205				
Command	name	type	Maximu m length	Returns a value description				
return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }				

				Detection line position: Detect the Y		
	DetectionLine	string	32	coordinate value of the detection line on the left (int number string)		
	PIX	string	32	The X coordinate Of the first point (int numeric string).		
	P1Y	string	32	The Y coordinate Of the first point (int numeric string).		
	P2X	string	32	The X coordinate of the second point (int numeric string).		
	P2Y	string	32	The second point Y coordinate (int numeric string).		
	P3X	string	32	The 3rd point X coordinate (int numeric string).		
	P3Y	string	32	The 3rd point Y coordinate (int numeric string).		
	P4X	string	32	The 4th point X coordinate (int numeric string).		
	P4Y	string	32	The 4th point Y coordinate (int numeric string).		
	The sample para	ameters are	sent as follow	ws:		
	{	nand":2205				
Command	Sign: Calculated (placed in message header)					
usage examples	The return exa	mple paran	neters are as f	follows:		
Champios	{					
	"result":{					
	"isError":					
	"code":"0	",				

```
"message": "Get detection line successfully!"

},

"DetectionLine":"0",

"P1X":"130",

"P1Y":"219",

"P2X":"221",

"P2Y":"250",

"P3X":"495",

"P4X":"587",

"P4Y":"250"

}
```

2.2.6 Detection direction acquisition

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defini	ition				
Command description	The data request device obtains the detection direction from the passenger flow device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2206	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key-				The parameters are as follows	
value pair that				{	
can be	result	JSON	255	"isError":	
converted to				"code":	
JSON).				"message":	

				}	
	DetectionDi rection	string	32	Detect direction (int numeric string): "0" : Reverse "1" : Positive	
	The sample pa	arameters are	sent as follo	ws:	
	{				
	"Con	"Command":2206			
	}				
	The return example parameters are as follows:				
Command	{				
usage	"result":{				
examples	"isErro	r": false,			
	"code":"0",				
	"message": "Get detection direction successfully!"				
	},				
	"DetectionDirection": "0"				
	}				

2.2.7 Detection switch acquisition

Sender	Data request device			
Recipient	Passenger flo	ow equipmen	t	
Command defin	ition			
Command description	The data request device obtains the detection switch from the passenger flow device			
Command	name	type	Maximu m length	Command description
parameters	Command	int	4	Command: 2207
Command return value	name	type	Maximu m length	Returns a value description

(string, a key-value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
	DetectionS witch	string	32	Detect switch (int numeric string): "0" : Closed "1" : Open
	The sample parameters are sent as follows: { "Command":2207 } The return example parameters are as follows:			
Command	{			
usage examples	"code": "messa; },			successfully"

2.2.8 Http JSON parameter acquisition

Sender	Data request device				
Recipient	Passenger flow equipment				
Command defini	ition				
Command	The data request device obtains HTTP JSON parameters from the passenger flow				
description	device				

Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2208	
	name	type	Maximu m length	Returns a value description	
Command	result	JSON	255	The parameters are as follows { "isError": "code": "message": }	
return value	Server1	string	-	The server address of Data Push 1	
value pair that	Port1	string	32	Port number (int numeric string) of data push	
can be	Interval1	string	32	Push interval for data push 1 (int numeric string)	
JSON).	Enable1	string	32	Enable flag for data push 1 (int numeric string)	
	Server2	string	-	The server address of Data Push 2	
	Port2	string	32	Port number (int numeric string) of data push 2	
	Interval2	string	32	Push interval for data push 2 (int numeric string)	
	Enable2	string	32	Enable flag for data push 2 (int numeric string)	
	The sample p	arameters are	sent as follo	ws:	
Command usage examples	"Command":2208 } The return example parameters are as follows:				

```
"result":{

"isError": false,

"code":"0",

"message": "Get http json param successfully"

},

"Server1":"192.168.8.101",

"Port1":"5001",

"Interval1":"11",

"Enable1":"0",

"Server2":"192.168.8.102",

"Port2":"5002",

"Interval2":"12",

"Enable2":"0"

}
```

2.2.9 HTTP XML parameter acquisition

Sender	Data request device			
Recipient	Passenger flow eq	uipment		
Command defini	ition			
Command	The data request d	evice obt	ains HTTP X	ML parameters from the passenger flow
description	device			
Command	name	type	Maximu m length	Command description
parameters	Command	int	4	Command: 2209
Command return value	name	type	Maximu m length	Returns a value description
(string, a key-				The parameters are as follows
value pair that	result	JSON	255	{
can be				"isError":

converted to				"code":	
JSON).				"message":	
				}	
	PostUrl	string	-	The data address of the data push	
	HeartUrl	string	-	The heartbeat address of the data push	
	DeviceId	string	20	The device ID of the data push	
	Interval	string	32	Push interval for data push (int numeric string)	
	IntervalMode	string	32	Data push interval mode (int numeric string)	
	RealTimeMode	string	32	Data push real-time mode (int numeric string)	
Command usage examples	RealTimeMode string 32				

2.2.10 Aisle mode acquisition

Sender	Data request	Data request device			
Recipient	Passenger flo	Passenger flow equipment			
Command defini	ition				
Command description	The data requ	est device ob	tains the aisle	pattern from the passenger flow device	
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2210	
	name	type	Maximu m length	Returns a value description	
Command return value (string, a key- value pair that can be converted to	result	JSON	255	The parameters are as follows { "isError": "code": "message": }	
JSON).	Enable	string	32	Aisle mode (int numeric string): "0" : Turn off aisle mode "1" : Turn on aisle mode	
Command usage examples	The sample parameters are sent as follows: { "Command":2210 } The return example parameters are as follows: { "result":{ "isError": false,				

```
"code":"0",

"message": "Get corridor mode successfully! "

},

"Enable": "0"

}
```

2.2.11 Obtained the background check of the left figure

Sender	Data request device			
Recipient	Passenger flow equipment			
Command defini	ition			
Command description	The data requ			ground check switch on the left from the
Command	name	type	Maximu m length	Command description
parameters	Command	int	4	Command: 2211
	name	type	Maximu m length	Returns a value description
Command return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
JSON).	Enable	string	32	Background check on the left (int numeric string): "0" : Turn off the left background check "1" : Enable the background check on the left

```
The sample parameters are sent as follows:

{

    "Command":2211

}

The return example parameters are as follows:

Command

usage
    "result":{

    "asError": false,

    "code":"0",

    "message": "Get left image check successfully! "

    },

    "Enable": "0"

}
```

2.2.12 Polyline mode acquisition

Sender	Data request	Data request device			
Recipient	Passenger fl	ow equipmen	t		
Command defin	ition				
Command	The data requ	est device ge	ts the polylin	e pattern from the passenger flow	
description	device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2212	
Command	name	type	Maximu m length	Returns a value description	
(string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code":	

converted to				"message":			
JSON).				}			
				Polyline pattern (int numeric string):			
	Enable	string	32	"0" : Turn off polyline mode			
				"1" : Turn on polyline mode			
	The sample pa	arameters are	sent as follow	WS:			
	{						
	"Cor	"Command":2212					
	}						
	The return example parameters are as follows:						
Command	{						
usage	"result":{						
examples	"isErro	r": false,					
	"code":"0",						
	"message": "Get broken line successfully! "						
	},						
	"Enable": "0"						
	}						

2.2.13 Reverse connection acquisition

Sender	Data request device					
Recipient	Passenger flo	ow equipmen	t			
Command defini	Command definition					
Command	The data request device obtains a reverse connection switch from the passenger					
description	flow devic	flow device				
Command	name type Maximu Command description m length					
parameters	Command	int	4	Command: 2213		

			Maximu			
	name	type	m length	Returns a value description		
Command				The parameters are as follows		
return value				{		
(string, a key-				"isError":		
value pair that	result	JSON	255	"code":		
can be				"message":		
converted to				}		
JSON).				Reverse connection (int numeric string):		
	Enable	string	32	"0" : Close reverse connection		
				"1" : Open the reverse connection		
	The sample parameters are sent as follows:					
	{					
	"Command":2213					
	}					
	The return e	xample paran	neters are as f	follows:		
Command	{					
usage	"result":{					
examples	"isErro	r": false,				
	"code":	"0",				
	"messa	ge": "Get rev	erse connect	successfully! "		
	},					
	"Enable": "0"					
	}					

2.2.14 Child Mode Acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				

Command	The data request device obtains the child mode parameters from the passenger					
description	flow device					
Command	name	type	Maximu m length	Command description		
parameters	Command	int	4	Command: 2214		
	name	type	Maximu m length	Returns a value description		
Command return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code": "message": }		
converted to JSON).	Enable	string	32	Child mode parameter (int numeric string): "0" : Turn off child mode "1" : Turn on Kids Mode Children's height threshold, in cm (int numeric		
	Threshold	string	32	string).		
	The sample parameters are sent as follows: { "Command":2214 }					
Command	The return e	xample paran	neters are as f	follows:		
usage examples	{ "result":{					
	"isError": false, "code":"0", "message": "Get child mode successfully! "					
	},					

```
"Enable": "0",

"Threshold": "150",

}
```

2.2.15 Count acquisition of stays

Sender	Data request device						
Recipient	Passenger flow equipment						
Command definition							
Command description	The data request device obtains the number of stay count parameters from the passenger flow device						
Command	name	type	Maximu m length	Command description			
parameters	Command	int	4	Command: 2215			
	name	type	Maximu m length	Returns a value description			
Command return value (string, a key- value pair that	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
can be converted to JSON).	StayTime	string	32	Dwell time threshold, in seconds. The number of people who stay longer than this threshold is counted as the number of stays. (int numeric string).			
	Enable	string	32	Stay count (int numeric string): "0" : Turn off dwell counting "1" : Turn on dwell count			

```
The sample parameters are sent as follows:
                  {
                         "Command":2215
                  }
                  The return example parameters are as follows:
Command
                     "result":{
usage
                       "isError": false,
examples
                       "code":"0",
                       "message": "Get stay person successfully! "
                     },
                    "Enable": "0",
                     "StayTime": 10
                  }
```

2.2.16 Image parameter acquisition

Sender	Data request device				
Recipient	Passenger fl	ow equipmen	t		
Command defin	ition				
Command	The data requ	est device ob	tains image p	parameters from the passenger flow	
description	device				
Command	name	type	Maximu m length	Command description	
parameters	Command	int	4	Command: 2216	
Command return value	name	type	Maximu m length	Returns a value description	
(string, a key- value pair that	result	JSON	255	The parameters are as follows	
can be				"isError":	

converted to				"code":			
JSON).				"message":			
JSON).							
				}			
	DesiredBrig	string	32	The image expects brightness, the range is			
	htness	String	32	0~255. (int numeric string).			
				Grayscale map threshold, the range is 0~255.			
	GrayValueT	string	32	The change value needs to be less brighter than			
	hreshold			the image expects. (int numeric string).			
	The sample pa	arameters are	sent as follo				
		arameters are	sent us fono				
	{						
	"Command":2216						
	}						
	The return example parameters are as follows:						
	{						
Command	"result":{						
usage	"isError": false,						
examples							
	"code":"0",						
	"message": "Get image param successfully! "						
	},						
	"Desired	Brightness":'	'90",				
	"GrayVa	lueThreshold	l":"70"				
	}						

2.2.1 7 IO delay acquisition

Sender	Data request device					
Recipient	Passenger flow equipment					
Command definition						
Command						
description	The data request device obtains the IO delay from the passenger flow device					

Command	name	type	Maximu m length	Command description
parameters	Command	int	4	Command: 2217
Command	name	type	Maximu m length	Returns a value description
Command return value (string, a key- value pair that can be converted to JSON).	result	JSON	255	The parameters are as follows { "isError": "code": "message": }
	OpenDelay	string	32	Open delay in seconds (int numeric string).
	CloseDelay	string	32	Off delay in seconds (int numeric string).
Command usage examples	The return e { "result":{ "isErro "code": "messa	nmand":2217 xample paran r": false, "0",		follows:

2.3 Passenger flow data commands

2.3.1 Obtain the results of client passenger flow statistics

Sender	Data request device						
Recipient	Passenger flow equipment						
Command defini	Command definition						
Command	The data req	uest device o	btains the cui	rent passenger flow statistics results from the			
description	passenger flo	w device					
Command	name	type	Maximu m length	Command description			
parameters	Command	int	4	Command: 2301			
	name	type	Maximu m length	Returns a value description			
Command return value (string, a key- value pair that can be	result	JSON	255	The parameters are as follows { "isError": "code": "message": }			
converted to	Enter	string	32	Number of entrants (int numeric string)			
JSON).	Leave	string	32	Number of departures (int numeric string)			
	Pass	string	32	Number of elapsed people (int numeric string)			
	Return	string	32	Number of returnees (int numeric string)			
	S hand	string	32	Number of people staying (int numeric string)			
	The sample parameters are sent as follows:						
Command	{						
usage	"Command":2301						
examples	}						
	The return e	xample paran	neters are as i	follows:			

```
{
    "result":{
        "isError": false,
        "code":"0",
        "message": "Get display data successfully! "
     },
     "Enter": "2",
     "Leave": "1",
     "Pass": "5",
     "Return": "3",
     "Shand": "2"
}
```

2.3.2 Acquisition of historical data of passenger flow

Sender	Data request device						
Recipient	Passenger flow equipment						
Command defin	Command definition						
Command	The data request	device o	btains the his	torical passenger flow statistics results from the			
description	passenger flow de	evice					
			Maximu				
	name	type	m length	Command description			
Command	Command	int	4	Command: 2302			
parameters	StartTimestamp	long	4	The second start timestamp			
	EndTimestamp	long	4	End stamp at the end of seconds			
Command			Maximu				
return value	name	type	m length	Returns a value description			
(string, a key-				The parameters are as follows			
value pair that	result	JSON	255	{			
can be				"isError":			

converted to				"code":			
JSON).				"message":			
				}			
	Enter	string	32	Number of entrants (int numeric string)			
	Leave	string	32	Number of departures (int numeric string)			
	Pass	string	32	Number of elapsed people (int numeric string)			
	Return	string	32	Number of returnees (int numeric string)			
	The sample parameters are sent as follows:						
	{						
	"Command":2302,						
	"StartTimestamp": 1667376099,						
	"EndTimestamp": 1667376200						
	}						
	The return example parameters are as follows:						
Command	{						
usage examples	"result":{						
	"isError": false,						
	"code":"0",						
	"message": "Get history data successfully! "						
	},						
	"Enter": "2",						
	"Leave": "1",						
	"Pass": "5",						
	"Return": "3"						
	}						

3. Video image class

3.1 Capture base64 image command

Sender	Data request device							
Recipient	Passenger flow equipment							
Command definition								
Command description	The data request device captures base64 images in real time to the passenger flow camera							
Command parameters	name	type	Maximum length	Command description				
	Command	int	4	Command: 3101				
Command return value	name	type	Maximum length	Returns a value description				
	result	JSON	255	The parameters are as follows { "isError": "code": "message": }				
	ImageFileName	string	32	yyyy-MM-dd- HH:mm:ss.jpg 格式 Such as 2019-08-14 22:00:00.jpg representative Photo at 22:00:00 on August 14, 2019				
	ImageData	string	-	Base64 data				
Command usage examples	The sample parameters are sent as follows: { "Command":3101 }							

```
The return example parameters are as follows:

{
    result
    {
        "isError": false,
        "code":"0",
        "message": "capture picture successfully!"
    }
    "ImageFileName":"20190814220000025.jpg",
    "ImageData":"base64 data"
}
```

4. Public return code

Return code	description	Workaround
0	succeed	-
1	TI	Set the correct parameter name or
	The parameter name or parameter range is incorrect	parameter range according to the error
		message
2	Device communication error	Reboot the device
3		Move the device to a well-lit location for
	Device initialization did not complete	the device to finish initializing
4	The device is on detection	Turn off device detection status