Passenger flow camera MQTT protocol command document

Version number: V1.0. 2

Contents

1. Device management class

1.1 Set basic device information

1.1.1 Time settings

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device sets the system time to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1 101
	SystemTime	string	100	yyyyMMddHHmmss format
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				{
				  "isError":
				  "code":
				  "message":
				}

Command usage examples	The sample parameters are sent as follows:
	
	  {
	     "Command":1101,
	     "SystemTime":"20190814175550"
	  }
	  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 flow equipment			
Command definition				
Command description	The data request device sets the system time zone to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1102
	TimeZone	int	4	-12–13 time zone
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				 {
				
				 "isError":
				
				 "code":
				
				 "message":
				
				 }

Command usage examples	The sample parameters are sent as follows: { "Command":1102, "TimeZone":8			

	}
	
	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 flow equipment			
Command definition				
Command description	The data request device sets a time synchronization server to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1103
	TimeServer	string	100	Time synchronization server address
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	  "Command":1103,
	
	  "TimeServer":"time.7x24s.com"
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "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 equipment			
Command definition				
Command description	The data request device sets the OSD display information to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1104
	ThesdStation	string	255	Point information
	SdTimeEnable	int	4	The enable time information displays: 0 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 return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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",
	     "ThesdTimeEnable":1,
	     "ThesdPflowEnable":1,
	     "ThesdStationEnable":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 equipment			
Command definition				
Command description	The data request device sets RS485 information to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1105
	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 return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	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 flow equipment			
Command definition				
Command description	The data request device obtains the system time and time zone from the footfall device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1201
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				{
				  "isError":
				  "code":
				  "message":
				}

	SystemTime	string	100	yyyy-MM-dd HH:mm:ss 格式

	TimeZone	string	32	-12–12 time zone, integer string

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":1201
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get device time and zone successfully! "
	
	  },
	
	  "SystemTime":"2022-08-14 17:55:30",
	
	  "TimeZone":"8"
	
	}			

1.2.2 Time synchronization server acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains a time synchronization server from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1201
Command return value (string, a key-value pair that	name	type	Maximum length	Returns a value description
	result	JSON	255	The parameters are as follows {

can be converted to JSON).				"isError": "code": "message": }
	TimeServer	string	100	

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	      "Command":1202
	
	  }
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "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 flow equipment			
Command definition				
Command description	The data request device obtains the device SN from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1203

	name	type	Maximum 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": true/false
				
				  "code":"string"
				
				  "message": "string"
				
				}

	DeviceSN	string	32	

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	     "Command":1203
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "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 definition	
Command description	The data request device obtains the MAC address of the device from the passenger flow device

Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1204

Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				   "isError": true/false
				
				   "code":"string"
				
				   "message": "string"
				
				}

	MacAddr	string	32	

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	       "Command":1204
	
	  }
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get device mac successfully! "
	
	  },
	
	  "MacAddr": "4C:BC:98:60:11:0E"
	
	}

1.2.5 Obtain the device firmware version number

Sender	Data request device
Recipient	Passenger flow equipment

Command definition				
Command description	The data request device obtains the device firmware version number from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1205
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				   "isError": true/false
				
				   "code":"string"
				
				   "message": "string"
				
				}

	FirmwareVer	string	32	

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	     "Command":1205
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get device firmware version successfully! "
	
	  },
	
	  "FirmwareVer": "V6.4.8"
	
	}			

1.2.6 Device Type Acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device gets the device type from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1206
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				   "isError": true/false
				
				   "code":"string"
				
				   "message": "string"
				
				}

	DeviceType	string	32	Devices are divided into two types (int numeric strings): "1": 140° large wide angle equipment "2": 100° ordinary equipment.

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	       "Command":1206
	
	  }
	
	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 definition				
Command description	The data request device obtains OSD display information from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1207
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				    "isError": true/false
				
				    "code":"string"
				
				    "message": "string"
				
				}

	ThesdStation	string	255	Point information
	SdTimeEnable	string	32	Enable time information display (int numeric string): "0": not enabled "1": Enable

	ThesdPflowEnable	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 parameters are sent as follows:
	
	{
	
	    "Command":1207
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get osd info successfully! "
	
	  },
	
	  "SdPflowEnable":"1",
	
	  "ThesdStation":"TestPoint",
	
	  "ThesdStationEnable":"1",
	
	  "ThesdTimeEnable":"1"
	
	}			

1.2.8 RS485 protocol information acquisition

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

Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1208
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	Protocol	string	32	Protocol Type: (int numeric string) "0": The protocol is not opened "1": Current limiting LED protocol "2": Modbus protocol
	BaudRate	string	32	Baud rate (int numeric string), e.g. "9600"
	Address	string	32	modbus address (int numeric string), e.g. "1"

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":1208
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get rs485 info successfully! "
	
	  },
	
	  "Address":"100",
	
	  "BaudRate":"9600",
	
	  "Protocol":"0"
	
	}

1.3 Device network information settings

1.3.1 Network parameter settings

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device sets the device network parameters to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1301
	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 (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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",
	
	  "DNS2":"192.168.1.2"
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Set net param successfully! "
	
	  }
	
	}

Command usage examples

1.4 Device network information acquisition

1.4.1 Network parameter acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the device network parameters from the passenger flow device			
Command parameters	name	type	Maximum length	Command description

	Command	int	4	Command: 1401
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	NetType	string	32	Network type, legal values are only "static" and "DHCP"
	Ip	string	32	Network IP address
	SubnetMask	string	32	Subnet mask
	Gateway	string	32	gateway
	DNS1	string	32	Primary DNS
	DNS2	string	32	Back up DNS

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":1401
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get device net param successfully! "
	
	  },
	
	  "NandType":"static",
	
	  "Ip":"192.168.1.100",			

	"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 device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device sets a restart to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1501
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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 flow equipment			
Command definition				
Command description	The data request device restores the default passenger flow parameters to the passenger flow device settings			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1502
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				  "isError":
				  "code":
				  "message":
				}

Command usage examples	The sample parameters are sent as follows:
	
	  {
	       "Command":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 device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device clears the passenger flow data to the passenger flow device settings			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 1503
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows {
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":1503
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "PassengerFlow data reset successfully! "
	
	  }
	
	}

1.5.4 Device Upgrade Settings

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

				"code":
converted to JSON).				"message": }

Command usage examples	The sample parameters are sent as follows:
	
	{
	    "Command":1504,
	    "Link":"http://ip. test.zip",
	    "MD5":"a92bae990bdd42864277524a5ac7410a"
	}
	The return example parameters are as follows:
	{
	  "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	Maximum length	Command description
Command	int	4	Command: 2101
DetectionHeight	int	4	Detect a highly legal range Large wide angle equipment: 190cm~350cm Ordinary equipment: 220cm~600cm
FilterHeight	int	4	Filter height Legal range 0-150 unit cm
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

The leftmost cell for the above rows reads "Command parameters".

name	type	Maximum length	Returns a value description

result	JSON	255	The parameters are as follows
			
			{
			
			  "isError":
			
			  "code":
			
			  "message":
			
			}

The leftmost cell for the above rows reads "Command return value (string, a key-value pair that can be converted to JSON)."

Command usage examples

The sample parameters are sent as follows:

```
{
    "Command":2101,
    "DetectionHeight":300,
    "FilterHeight":120,
```

```
    "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 equipment			
Command definition				
Command description	The data request device sets the detection area to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2102
	LeftUpPointX	int	4	The starting coordinate X of the upper-left corner of the detection area
	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 (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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,
	  "RightDownPointY": 240,
	  "LeftDownPointX": 260,
	  "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 equipment			
Command definition				
Command description	The data request device sets the detection line to the passenger flow device			
Command parameters	name	type	Maximum 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.
	P1X	int	4 bytes	The first point X coordinate (required in polyline mode).
	P1Y	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 (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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 definition				
Command description	The data request device sets the detection direction to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2104
	DetectionDirection	int	4 bytes	0 : Reverse 1 : Forward
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				  "isError":
				  "code":
				  "message":
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":2104,
	
	    "DetectionDirection":0
	
	}
	
	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 definition				
Command description	The data request device sets the detection switch to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2105
	DetectionSwitch	int	4	0 : Detection off 1 : Detection on
Command return value (string, a key-value pair that can be	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":

31

converted to JSON).				"message": }

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	   "Command":2105,
	
	   "DetectionSwitch":0
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "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 definition				
Command description	The data request device sets HTTP JSON parameters to the passenger flow device			
Command parameters	name	type	Maximu m length	Command description
	Command	int	4	Command: 2106
	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 return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	 "Command":2106,
	
	"Server1":"192.168.8.101",
	
	"Port1":5001,
	
	"Interval1":11,
	
	"Enable1":0,
	
	"Server2":"192.168.8.102",
	
	"Port2":5002,
	
	"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 equipment
Command definition	

Command description	The data request device sets HTTP XML parameters to the passenger flow device			

Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2107
	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	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 return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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":"20100121122250305",`
	`"Interval":2,`
Command	`"IntervalMode":0,`
usage	`"RealTimeMode":0`
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 equipment			
Command definition				
Command description	The data request device sets the aisle mode to the passenger flow device			
Command parameters	name	type	Maximu m length	Command description
	Command	int	4	Command: 2108

	Enable	int	4	0 : Turn off aisle mode 1 : Turn on aisle mode
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximu m length	Returns a value description

	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 description	The data request device sets the background check mode of the left figure to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2109
	Enable	int	4	0 : Turn off the left background check 1 : Enable the background check on the left
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	result	JSON	255	The parameters are as follows { "isError": "code": "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 image check successfully! " } }			

2.1.10 Polyline mode settings

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device sets the polyline mode to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2110
	Enable	int	4	0 : Turn off polyline mode 1 : Turn on polyline mode
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	  "Command":2110,
	
	  "Enable":0
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,			

```
        "code":"0",

        "message": " Set broken line successfully! "

    }

}
```

2.1.11 Reverse connection settings

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device sets the reverse connection mode to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2109
	Enable	int	4	0 : Close the reverse connection 1 : Enable reverse connection
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				{
				  "isError":
				  "code":
				  "message":
				}

Command usage examples	The sample parameters are sent as follows:
	{
	    "Command":2111,
	    "Enable":0
	}			

	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 definition	

Command description	The data request device sets the background check mode of the left figure to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2112
	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 (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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	The return example parameters are as follows:
examples	{
	"result":{
	"isError": false,
	"code":"0",
	"message": "Set child mode successfully! "
	}
	}

2.1.13 Stay count settings

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

Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":2113,
	
	    "Enable":0,
	
	    "StayTime":15
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Set stay person successfully! "
	
	  }
	
	}

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			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2114
	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 (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	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 definition				
Command description	The data request device sets the IO delay to the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2114
	OpenDelay	int	4	Open delay in seconds
	CloseDelay	int	4	Off delay in seconds
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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 equipment			
Command definition				
Command description	The data request device obtains the height parameter from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2201
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				 {
				  "isError":
				  "code":
				  "message":
				}

45

	DetectionHeight	string	32	To detect a highly legal range (int numeric string): Large wide angle equipment: 190cm~350cm Ordinary equipment: 220cm~600cm
	FilterHeight	string	32	Filter height Legal range 0-150 unit cm
	RotateDirectionValue	string	32	The rotation direction legal range 0-3 (int numeric string): "0": x-axis "1":y 轴 "2": X-axis aisle "3": Y-axis aisle
	RotateAngleValue	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 parameters are sent as follows:
	
	{
	
	    "Command":2201
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get height param successfully! "
	
	  },
	
	  "DetectionHeight": "300",
	
	  "FilterHeight":"120"，
	
	  "RotateDirectionValue":"0",			

	"RotateAngleValue":"1.5"
	}

2.2.2 Detection area range acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the legal range of the detection area corresponding to the current height from the passenger flow device (different detection heights correspond to different detection ranges, and the detection range should be obtained and reset after the detection height is set)			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2202
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	LeftUpPointX	string	32	The x-coordinate (int numeric string) in the upper left corner
	LeftUpPointY	string	32	Y coordinate (int numeric string) in the upper left corner
	RightUpPointX	string	32	The X coordinate (int numeric string) in the upper right corner
	RightUpPointY	string	32	Y coordinate (int numeric string) in the upper right corner
	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

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	     "Command":2202
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get detection area range successfully! "
	
	  },
	
	  "LeftUpPointX":"260",
	
	  "LeftUpPointY":"180",
	
	  "RightUpPointX":"340",
	
	  "RightUpPointY":"180",
	
	  "RightDownPointX":"360",
	
	  "RightDownPointY":"240",
	
	  "LeftDownPointX":"260",
	
	  "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 definition				
Command description	The data request device obtains the detection area from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2203
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description
	LeftUpPointX	string	32	The x-coordinate (int numeric string) in the upper left corner
	LeftUpPointY	string	32	Y coordinate (int numeric string) in the upper left corner
	RightUpPointX	string	32	The X coordinate (int numeric string) in the upper right corner
	RightUpPointY	string	32	Y coordinate (int numeric string) in the upper right corner
	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

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	     "Command":2203
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get detection area successfully! "
	
	  },
	
	  "LeftUpPointX":"260",
	
	  "LeftUpPointY":"180",
	
	  "RightUpPointX":"340",
	
	  "RightUpPointY":"180",
	
	  "RightDownPointX":"360",
	
	  "RightDownPointY":"240",
	
	  "LeftDownPointX":"260",
	
	  "LeftDownPointY":"240"			

	}

2.2.4 Detection line range acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	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 parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2204
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	DetectionLineMin	string	32	Detection line minimum (int numeric string): The minimum value of the detection line in the Y coordinate on the left figure
	DetectionLineMax	string	32	Detection line maximum (int numeric string): The maximum value of the detection line in the Y coordinate on the left figure
Command usage examples	The sample parameters are sent as follows: { "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 device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the location of the detection line from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2205
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				　"isError":
				
				　"code":
				
				　"message":
				
				}

	DetectionLine	string	32	Detection line position: Detect the Y coordinate value of the detection line on the left (int number string)
	P1X	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).

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	　　"Command":2205
	
	}
	
	Sign: Calculated (placed in message header)
	
	The return example parameters are as follows:
	
	{
	
	　"result":{
	
	　　"isError": false,
	
	　　"code":"0",			

          "message": "Get detection line successfully!"

      },

      "DetectionLine":"0",

      "P1X":"130",

      "P1Y":"219",

      "P2X":"221",

      "P2Y":"250",

      "P3X":"495",

      "P3Y":"180",

      "P4X":"587",

      "P4Y":"250"

  }

2.2.6 Detection direction acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the detection direction from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2206
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":

				}
	DetectionDi rection	string	32	Detect direction (int numeric string): "0" : Reverse "1" : Positive

Command usage examples	The sample parameters are sent as follows:
	
	 {
	
	     "Command":2206
	
	 }
	
	 The return example parameters are as follows:
	
	 {
	
	   "result":{
	
	     "isError": false,
	
	     "code":"0",
	
	      "message": "Get detection direction successfully!"
	
	   },
	
	   "DetectionDirection": "0"
	
	 }			

2.2.7 Detection switch acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the detection switch from the passenger flow device			
Command parameters	name	type	Maximu m length	Command description
	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":
				
				}

	DetectionSwitch	string	32	Detect switch (int numeric string): "0" : Closed "1" : Open

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	      "Command":2207
	
	  }
	
	The return example parameters are as follows:
	
	  {
	
	    "result":{
	
	      "isError": false,
	
	     "code":"0",
	
	      "message": "Get detection switch successfully"
	
	    },
	
	    "DetectionSwitch": "0"
	
	  }			

2.2.8 Http JSON parameter acquisition

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

Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2208
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	Server1	string	-	The server address of Data Push 1
	Port1	string	32	Port number (int numeric string) of data push 1
	Interval1	string	32	Push interval for data push 1 (int numeric string)
	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)

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	      "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 equipment			
Command definition				
Command description	The data request device obtains HTTP XML parameters from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2209
Command return value (string, a key-value pair that can be	name	type	Maximum length	Returns a value description
	result	JSON	255	The parameters are as follows { "isError":

converted to JSON).				"code": "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	The sample parameters are sent as follows:
	
	{
	
	     "Command":2209
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get http xml param successfully"
	
	  },
	
	  "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",
	
	  "RealTimeMode":"0"
	
	}			

2.2.10 Aisle mode acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains the aisle pattern from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2210
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	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 definition				
Command description	The data request device obtains the background check switch on the left from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2211
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	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

Command usage examples	The sample parameters are sent as follows:
	
	{
	       "Command":2211
	}
	
	The return example parameters are as follows:
	
	{
	   "result":{
	     "isError": false,
	     "code":"0",
	     "message": "Get left image check successfully! "
	   },
	   "Enable": "0"
	}

2.2.12 Polyline mode acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device gets the polyline pattern from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2212
Command return value (string, a key-value pair that can be	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				   "isError":
				   "code":

converted to JSON).				"message": }
	Enable	string	32	Polyline pattern (int numeric string): "0" : Turn off polyline mode "1" : Turn on polyline mode

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	    "Command":2212
	
	}
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get broken line successfully! "
	
	  },
	
	  "Enable": "0"
	
	}			

2.2.13 Reverse connection acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains a reverse connection switch from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2213

	name	type	Maximum 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":
				
				}

	Enable	string	32	Reverse connection (int numeric string): "0" : Close reverse connection "1" : Open the reverse connection

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	      "Command":2213
	
	  }
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get reverse connect successfully! "
	
	  },
	
	  "Enable": "0"
	
	}			

2.2.14 Child Mode Acquisition

Sender	Data request device
Recipient	Passenger flow equipment
Command definition	

Command description	The data request device obtains the child mode parameters from the passenger flow device			
Command parameters	name	type	Maximu m length	Command description
	Command	int	4	Command: 2214
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximu m length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	Enable	string	32	Child mode parameter (int numeric string): "0" : Turn off child mode "1" : Turn on Kids Mode
	Threshold	string	32	Children's height threshold, in cm (int numeric string).

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	      "Command":2214
	
	  }
	
	  The return example parameters are as follows:
	
	  {
	
	    "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 parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2215
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "message":
				
				}

	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

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

2.2.16 Image parameter acquisition

Sender	Data request device			
Recipient	Passenger flow equipment			
Command definition				
Command description	The data request device obtains image parameters from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2216
Command return value (string, a key-value pair that can be	name	type	Maximum length	Returns a value description
	result	JSON	255	The parameters are as follows { "isError":

converted to JSON).				"code": "message": }
	DesiredBrightness	string	32	The image expects brightness, the range is 0~255. (int numeric string).
	GrayValueThreshold	string	32	Grayscale map threshold, the range is 0~255. The change value needs to be less brighter than the image expects. (int numeric string).

Command usage examples	The sample parameters are sent as follows:
	
	{
	      "Command":2216
	}
	
	The return example parameters are as follows:
	
	{
	  "result":{
	    "isError": false,
	    "code":"0",
	    "message": "Get image param successfully! "
	  },
	   "DesiredBrightness":"90",
	   "GrayValueThreshold":"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 parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2217
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	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 sample parameters are sent as follows:
	
	  {
	
	      "Command":2217
	
	  }
	
	The return example parameters are as follows:
	
	{
	
	  "result":{
	
	    "isError": false,
	
	    "code":"0",
	
	    "message": "Get io delay successfully! "
	
	  },
	
	   "OpenDelay":"10",
	
	   "CloseDelay":"10"
	
	}			

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 definition				
Command description	The data request device obtains the current passenger flow statistics results from the passenger flow device			
Command parameters	name	type	Maximum length	Command description
	Command	int	4	Command: 2301
Command return value (string, a key-value pair that can be converted to JSON).	name	type	Maximum length	Returns a value description

	result	JSON	255	The parameters are as follows
				
				{
				
				  "isError":
				
				  "code":
				
				  "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)
	S hand	string	32	Number of people staying (int numeric string)

Command usage examples	The sample parameters are sent as follows:
	
	  {
	
	       "Command":2301
	
	  }
	
	The return example parameters are as 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 definition				
Command description	The data request device obtains the historical passenger flow statistics results from the passenger flow device			
Command parameters	name	type	Maximu m length	Command description
	Command	int	4	Command: 2302
	StartTimestamp	long	4	The second start timestamp
	EndTimestamp	long	4	End stamp at the end of seconds
Command return value (string, a key-value pair that can be	name	type	Maximu m length	Returns a value description
	result	JSON	255	The parameters are as follows { "isError":

converted to JSON).				"code": "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)

Command usage examples	The sample parameters are sent as follows:
	
	{
	
	  "Command":2302,
	
	  "StartTimestamp": 1667376099,
	
	  "EndTimestamp": 1667376200
	
	}
	
	 The return example parameters are as follows:
	
	{
	
	  "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	The parameter name or parameter range is incorrect	Set the correct parameter name or parameter range according to the error message
2	Device communication error	Reboot the device
3	Device initialization did not complete	Move the device to a well-lit location for the device to finish initializing
4	The device is on detection	Turn off device detection status