

HTTP API of PTZ

Version 3.0.3

Release notes			
Version	Description	Date	Authors
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V3.0.2	Increase light brightness and enhance module capability acquisition	2024/08/05	Shawn
V3.0.3	Default use of Digest authentication, increase the ability to obtain some functional items	2024/12/20	Shawn

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1 Summary

This document introduces the commands which is used to get device ability.

2 Get device ability

2.1 Describe

This command is used to get ability of device.

2.2 Grammar

```
http://<Device IP>/cgi/ability.cgi?ability=xxx&ch=0
```

Note: You can appoint multi parameters that you want to get.

Example 1: Get ability of awb and ae at the same time.

Parameter can be like “ability=awb,ae”.

Parameter	Description
vi	Video source ability
venc	Video encode ability
res	Resolution list
sample	Audio sampling frequency
awb	White balance
ae	Exposure
aenc	Audio encode
adec	Audio decode
ain	Audio in type
shutter	Shutter mode
photometry	Not support
color	Color mode
wdr	WDR mode
hnr	HDR mode
bic	BLC mode
stabilize	Image stabilize mode
nuc_mode	Nuc mode
gamma	Gamma mode
img_profile	Image profile
icr_mode	IR cut switch mode
iris_mode	Not support
dis	Digital image stabilization mode
ldc	Lens distortion correction mode
digital_zoom	Not support

af	Not support
wdr_type	WDR type
ir_bright_enagle	Not support
hnr_mode	Not support
vbitrate	Bitrate type
framerate	Range of framerate
gov	Range of GOP
quality	Range of encode quality
gain	Gain range
saturation	Saturation range
contrast	Contrast range
brightness	Brightness range
sharpness	Sharpness range
nr	Denoise range
defog	Defog range
hue	Hue range
ir_brightness	Infrared lamp brightness range
white_brightness	White light lamp brightness range
wdr_level	WDR level
max_res	Max resolution of device
max_preset	PTZ: Max preset number
max_scan	PTZ: Max scan number
max_tour	PTZ: Max tour number
max_track	PTZ: Max track number
max_group	PTZ: Max group number
max_mask	Max video mask number
ai_vg	Cross line detection module
ai_region	Perimeter protection module
ai_face	Face capture module
ai_pv	Human & Vehicle module
ai_face_recognition	Face detection module
ai_pet	Pet detection
max_ai_vg_rule	Max crossline rule
max_ai_region_rule	Max perimeter protection rule
max_ai_pv_rule	Max human&vehicle rule
max_ai_face_rule	Max face rule
min_ai_face_pixel	Min face pixel
max_ai_face_pixel	Max face pixel
img_ae_flicker	AE flicker
--	
sys_cap_all	A collection of modules for all supporting capabilities
sys_cap_rotate	Rotate

sys_cap_mirror	Mirror
sys_cap_vmotion	Motion detection
sys_cap_vilost	Videl lost
sys_cap_netbroken	Net broken
sys_cap_triggeract	Triggeract support type
sys_cap_sensorcrop	Sensor crop
sys_cap_ptzcfg	Ptz module config
sys_cap_stitchcfg	Stitch
sys_cap_ipv6	IPV6
sys_cap_pppoe	PPPoE
sys_cap_ddns	DDNS
sys_cap_rtp	RTP
sys_cap_8021x	8021x
sys_cap_upnp	UPNP
sys_cap_qos	QoS
sys_cap_ip_filter	IP filter
sys_cap_wifi	WIFI
sys_cap_bluetooth	Bluetooth
sys_cap_gps	GPS
sys_cap_wiegand	Wiegand
sys_cap_vpn	VPN
sys_cap_security	Security
sys_cap_ftp	FTP
sys_cap_nas	NAS
sys_cap_smtp	SMTP
sys_cap_snmp	SNMP
sys_cap_rtsp	RTSP
sys_cap_rtmp	RTMP
sys_cap_ntp	NTP
sys_cap_https	HTTPS
sys_cap_meari	Meari
sys_cap_hik	Hik
sys_cap_gb28181	GB28181
sys_cap_gb1400	GB1400
sys_cap_onvif	ONVIF
sys_cap_mobile	P2P mobile view
sys_cap_mqtt	MQTT
sys_cap_sdcard	TF-Card
--	

3 Ability parameter description

3.1 vi

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<vilist><res width='2592' height='1944'></res></vilist>
</root>
```

Description:

Parameter	Description
<vilist>	Actual value of resolution
<res>	
width	Actual value of the selectable resolution width
height	Actual value of the selectable resolution height

3.2 venc

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<venclist><venc
encodetype='1'><bitratetype>1</bitratetype><bitratetype>2</bitratetype><profile>1</profi
le><profile>2</profile><profile>3</profile></venc><venc
encodetype='6'><bitratetype>1</bitratetype><bitratetype>2</bitratetype><profile>2</profi
le></venc><venc
encodetype='2'><bitratetype>2</bitratetype><profile>0</profile></venc></venclist>
</root>
```

Description:

Parameter	Description
<venc>	Number of video channels and code streams
<venlist>	
<bitratetype>	2 Bitrate Type
<profile>	3 Encode Profile Type

3.3 res

Example :

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <reslist stream='1'><res width='3072' height='2048'></res><res width='2592'
height='1944'></res><res width='2560' height='1440'></res><res width='2304'
height='1296'></res><res width='1920' height='1080'></res><res width='1280'
height='720'></res></reslist>
  <reslist stream='2'><res width='1280' height='720'></res><res width='704'
height='576'></res><res width='720' height='480'></res><res width='640'
height='480'></res><res width='640' height='360'></res></reslist>
</root>
```

Description :

Parameter	Description
<reslist>	Video channels and streams
stream	Current stream number
<res>	Resolution
width	Actual value of resolution width
height	Actual value of resolution height

3.4 sample

Example :

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <samplelist>
    <sample>8000</sample>
    <sample>16000</sample>
  </samplelist>
</root>
```

Description:

Parameter	Description
<samplelist>	Audio Channel
<sample>	Actual value of sampling rate

3.5 awb

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<awblist>
<awb>1</awb>
<awb>2</awb>
</awblist>
</root>
```

Description:

Parameter	Description
<awblist>	Indicates video channel
<awb>	AWB mode list

3.6 ae

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<aelist>
<ae>1</ae>
<ae>2</ae>
</aelist>
</root>
```

Description:

Parameter	Description
<aelist>	Video Channel
<ae>	4 AE Mode

3.7 aenc

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<aenclist>
<aenc>3</aenc>
<aenc>4</aenc>
<aenc>7</aenc>
</aenclist>
</root>
```

Description:

Parameter	Description
<aenclist>	Audio Channel
<aenc>	5 Encode Type

3.8 adec

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<adeclist>
<adec>4</adec>
</adeclist>
</root>
```

Description:

Parameter	Description
<adeclist>	Audio Channel
<adec>	5 Encode Type

3.9 ain

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<ainlist>

<ain>1</ain>

</ainlist>

</root>
```

Description:

Parameter	Description
<ainlist>	Audio Channel
<ain>	6 Input Type

3.10 shutter

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<shutterlist>

<shutter>1</shutter>

<shutter>2</shutter>

<shutter>3</shutter>

<shutter>4</shutter>

<shutter>5</shutter>

<shutter>6</shutter>

<shutter>7</shutter>

<shutter>8</shutter>

<shutter>9</shutter>

<shutter>10</shutter>

<shutter>11</shutter>

<shutter>12</shutter>

<shutter>13</shutter>

<shutter>14</shutter>

<shutter>15</shutter>

<shutter>16</shutter>

<shutter>17</shutter>

<shutter>18</shutter>

<shutter>19</shutter>

</shutterlist>
```

```
</root>
```

Description:

Parameter	Description
<shutterlist>	Video Channel
<shuttert>	13 Shutter Time

3.11 photometry

Not support.

3.12 Color

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <colorlist profile='0'><color>1</color></colorlist>
  <colorlist profile='1'><color>1</color><color>2</color></colorlist>
</root>
```

Description:

Parameter	Description
<colorlist>	Audio Channel
<color>	7 Color Mode

3.13 wdr

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <wdrlist>
    <wdr>3</wdr>
    <wdr>2</wdr>
```

```
</wdrlist>
</root>
```

Description:

Parameter	Description
<wdrlist>	Video Channel
<wdr>	8 WDR Type

3.14 hnr

Not support.

3.15 blc

Not support.

3.16 stabilize

Not support.

3.17 nuc_mode

Not support.

3.18 gamma

Not support.

3.19 img_profile

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<img_profilelist>
<img_profile>0</img_profile>
```

```
<img_profile>1</img_profile>
<img_profile>2</img_profile>
</img_profilelist>
</root>
```

Description:

Parameter	Description
<img_profilelist>	Video Channel
<img_profile>	11 Profile Type

3.20 icr_mode

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <icr_modelist>
    <icr_mode>1</icr_mode>
    <icr_mode>2</icr_mode>
    <icr_mode>3</icr_mode>
  </icr_modelist>
</root>
```

Description:

Parameter	Description
<icr_modelist>	Video Channel
<icr_mode>	12 ICR Type

3.21 iris_mode

Not support.

3.22 DIS

Not support.

3.23 LDC

Not support.

3.24 digital_zoom

Not support.

3.25 af

Not support.

3.26 wdr_type

Not support.

3.27 ir_bright_enable

Not support.

3.28 hnr_mode

Not support.

3.29 vbitrate

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<vbitrate stream='1' min='64' max='8192'></vbitrate>
<vbitrate stream='2' min='64' max='2048'></vbitrate>
</root>
```

Description:

Parameter	Description
-----------	-------------

<vbitrate>	Number of video channels and code streams
stream	stream index
min	Minimum number of bitrate
max	Maximum number of bitrate

3.30 framerate

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<framerate min='1' max='25'></framerate>
</root>
```

Description:

Parameter	Description
<framerate>	Number of video channels and code streams
min	Minimum number of framerate
max	Maximum number of framerate

3.31 gov

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<gov min='1' max='128'></gov>
</root>
```

Description:

Parameter	Description
<gov>	Number of video channels and code streams
min	Minimum number of GOP
max	Maximum number of GOP

3.32 quality

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<qulity min='1' max='100'></qulity>
</root>
```

Description:

Parameter	Description
<qulity>	Number of video channels and code streams
min	Minimum number of quality
max	Maximum number of quality

3.33 gain

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<gain min='0' max='100'></gain>
</root>
```

Description:

Parameter	Description
<gain>	Video Channel
min	Minimum number of Gain
max	Maximum number of Gain

3.34 saturation

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<saturation min='0' max='100'></saturation>
</root>
```

Description:

Parameter	Description
<saturation>	Video Channel
min	Minimum number of Saturation
max	Maximum number of Saturation

3.35 contrast

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<contrast min='0' max='100'></contrast>
</root>
```

Description:

Parameter	Description
<contrast>	Video Channel
min	Minimum number of contrast
max	Maximum number of contrast

3.36 brightness

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<brightness min='0' max='100'></brightness>
</root>
```

Description:

Parameter	Description
<brightness>	Video Channel
min	Minimum number of brightness
max	Maximum number of brightness

3.37 sharpness

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<sharpness min='0' max='100'></sharpness>
</root>
```

Description:

Parameter	Description
<sharpness>	Video Channel
min	Minimum number of Sharpness
max	Maximum number of Sharpness

3.38 nr

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<nr min='0' max='100'></nr>
</root>
```

Description:

Parameter	Description
<nr>	Denoise
min	Minimum number of denoise
max	Maximum number of denoise

3.39 Defog

Not support.

3.40 hue

Not support.

3.41 ir_brightness

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<ir_brightness min='0' max='100'></ir_brightness>
</root>
```

Description:

Parameter	Description
<ir_brightness>	
min	Minimum number of Infrared lamp brightness
max	Maximum number of infrared lamp brightness

3.42 white_brightness

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<brightness min='0' max='100'></brightness>
</root>
```

Description:

Parameter	Description
<brightness>	
min	Minimum number of Infrared lamp brightness

max	Maximum number of infrared lamp brightness
-----	--

3.43 wdr_level

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<wdr_level min='0' max='100'></wdr_level>
</root>
```

Description:

Parameter	Description
<wdr_level>	
min	Minimum number of wdr level
max	Maximum number of wdr level

3.44 max_res

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_res stream='1'>
<res width='2592' height='1944'></res>
</max_res>
<max_res stream='2'>
<res width='1280' height='720'></res>
</max_res>
</root>
```

Description:

Parameter	Description
<max_res>	Max resolution of device

stream	Stream index
<res>	
width	Actual value of resolution width
height	Actual value of resolution height

3.45 max_preset

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_preset>255</max_preset>
</root>
```

Description:

Parameter	Description
<max_preset>	Maximum number of preset

3.46 max_scan

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_scan>0</max_scan>
</root>
```

Description:

Parameter	Description
<max_scan>	Maximum number of scan

3.47 max_tour

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_tour>8</max_tour>
```



```
</root>
```

Description:

Parameter	Description
<max_tour>	Maximum number of tour

3.48 max_track

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_track>8</max_track>
</root>
```

Description:

Parameter	Description
<max_track>	Maximum number of track

3.49 max_group

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<max_group>0</max_group>
</root>
```

Description:

Parameter	Description
<max_group>	Maximum number of group

3.50 max_mask

Example:

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<root>
<max_group>0</max_group>
</root>
```

Description:

Parameter	Description
<max_mask>	Maximum number of video mask

3.51 ai_vg

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_vg>1</ai_vg>
</root>
```

Description:

Parameter	Description
<ai_vg>	Cross line detection. 0-Not support, 1-Support

3.52 ai_region

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_region>1</ai_region>
</root>
```

Description:

Parameter	Description
<ai_region>	Perimeter protection.0-Not support,1-Support

3.53 ai_face

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_face>1</ai_face>
</root>
```

Description:

Parameter	Description
<ai_face>	Face capture.0-Not support,1-Support

3.54 ai_pv

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_pv>1</ai_pv>
</root>
```

Description:

Parameter	Description
-----------	-------------

<ai_pv>	Human & Vehicle.0-Not support,1-Support
---------	---

3.55 ai_face_recognition

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_face_recognition>1</ai_face_recognition>
</root>
```

Description:

Parameter	Description
<ai_face_recognition>	Face recognition.0-Not support,1-Support

3.56 ai_pet

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<ai_pet>1</ai_pet>
</root>
```

Description:

Parameter	Description
<ai_pet>	Pet detection.0-Not support,1-Support

3.57 max_ai_vg_rule

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<max_ai_vg_rule>4</max_ai_vg_rule>
</root>
```

Description:

Parameter	Description
<max_ai_vg_rule>	Number of crossline detectin areas supports

3.58 max_ai_region_rule

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='1' />
<max_ai_region_rule>4</max_ai_region_rule>
</root>
```

Description:

Parameter	Description
<max_ai_region_rule>	Number of Perimeter protection areas supports

3.59 max_ai_pv_rule

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<version version='1' />

<max_ai_pv_rule>1</max_ai_pv_rule>

</root>
```

Description:

Parameter	Description
<max_ai_pv_rule>	Number of Human&Vehicle areas supports

3.60 max_ai_face_rule

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<version version='1' />

<max_ai_face_rule>1</max_ai_face_rule>

</root>
```

Description:

Parameter	Description
<max_ai_face_rule>	Number of face capture areas supports

3.61 min_ai_face_pixel

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<version version='1' />
```

```
<min_ai_face_pixel>12</min_ai_face_pixel>

</root>
```

Description:

Parameter	Description
<min_ai_face_pixel>	Min pixel of face capture

3.62 max_ai_face_pixel

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<version version='1' />

<max_ai_face_pixel>1000</max_ai_face_pixel>

</root>
```

Description:

Parameter	Description
<max_ai_face_pixel>	Max pixel of face capture

3.63 img_ae_flicker

Example:

```
<?xml version="1.0" encoding="utf-8"?>

<root>

<version version='1' />

<img_ae_flicker>1</img_ae_flicker>

</root>
```

Description:

Parameter	Description
<img_ae_flicker>	AE flicker, 0-Not support, 1-Support

3.64 sys_cap_all

Example:

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<version version='2' />
<sys_cap_rotate>1</sys_cap_rotate>
<sys_cap_mirror>1</sys_cap_mirror>
<sys_cap_vmotion>1</sys_cap_vmotion>
<sys_cap_vilost>0</sys_cap_vilost>
<sys_cap_netbroken>0</sys_cap_netbroken>
<sys_cap_triggeract>255</sys_cap_triggeract>
<sys_cap_sensorcrop>1</sys_cap_sensorcrop>
<sys_cap_ptzcfg>255</sys_cap_ptzcfg>
<sys_cap_stitchcfg>0</sys_cap_stitchcfg>
<sys_cap_ipv6>1</sys_cap_ipv6>
<sys_cap_pppoe>0</sys_cap_pppoe>
<sys_cap_ddns>1</sys_cap_ddns>
<sys_cap_rtp>1</sys_cap_rtp>
<sys_cap_8021x>0</sys_cap_8021x>
<sys_cap_upnp>0</sys_cap_upnp>
<sys_cap_qos>0</sys_cap_qos>
```



```

<sys_cap_ip_filter>1</sys_cap_ip_filter>
<sys_cap_wifi>0</sys_cap_wifi>
<sys_cap_bluetooth>0</sys_cap_bluetooth>
<sys_cap_gps>0</sys_cap_gps>
<sys_cap_wiegand>0</sys_cap_wiegand>
<sys_cap_vpn>0</sys_cap_vpn>
<sys_cap_security>0</sys_cap_security>
<sys_cap_ftp>1</sys_cap_ftp>
<sys_cap_nas>1</sys_cap_nas>
<sys_cap_smtp>1</sys_cap_smtp>
<sys_cap_snmp>0</sys_cap_snmp>
<sys_cap_rtsp>1</sys_cap_rtsp>
<sys_cap_rtmp>1</sys_cap_rtmp>
<sys_cap_ntp>1</sys_cap_ntp>
<sys_cap_https>1</sys_cap_https>
<sys_cap_meari>0</sys_cap_meari>
<sys_cap_hik>1</sys_cap_hik>
<sys_cap_gb28181>0</sys_cap_gb28181>
<sys_cap_gb1400>0</sys_cap_gb1400>
<sys_cap_onvif>1</sys_cap_onvif>
<sys_cap_mobile>1</sys_cap_mobile>
<sys_cap_mqtt>0</sys_cap_mqtt>
<sys_cap_sdcard>1</sys_cap_sdcard>
</root>

```

Description:

Parameter	Description
sys_cap_all	A collection of modules for all supporting capabilities

sys_cap_rotate	Rotate
sys_cap_mirror	Mirror
sys_cap_vmotion	Motion detection
sys_cap_vilost	Videl lost
sys_cap_netbroken	Net broken
sys_cap_triggeract	Triggeract support type
sys_cap_sensorcrop	Sensor crop
sys_cap_ptzcfg	Reference appendix 14-PTZCFG
sys_cap_stitchcfg	Stitch
sys_cap_ipv6	IPv6
sys_cap_pppoe	PPPoE
sys_cap_ddns	DDNS
sys_cap_rtp	RTP
sys_cap_8021x	8021x
sys_cap_upnp	UPNP
sys_cap_qos	QoS
sys_cap_ip_filter	IP filter
sys_cap_wifi	WIFI
sys_cap_bluetooth	Bluetooth
sys_cap_gps	GPS
sys_cap_wiegand	Wiegand
sys_cap_vpn	VPN
sys_cap_security	Security
sys_cap_ftp	FTP
sys_cap_nas	NAS
sys_cap_smtp	SMTP
sys_cap_snmp	SNMP
sys_cap_rtsp	RTSP
sys_cap_rtmp	RTMP

sys_cap_ntp	NTP
sys_cap_https	HTTPS
sys_cap_meari	Meari
sys_cap_hik	Hik
sys_cap_gb28181	GB28181
sys_cap_gb1400	GB1400
sys_cap_onvif	ONVIF
sys_cap_mobile	P2P mobile view
sys_cap_mqtt	MQTT
sys_cap_sdcard	TF-card

Appendix

1.AWB

Parameter	Description
0	NONE
1	Auto
2	Manual

2.Bitrate Type

Parameter	Description
0	NONE
1	CBR
2	VBR

3.Encode Profile Type

Parameter	Description
0	NONE
1	Baseline
2	Main Profile
3	High Profile

4.AE Mode

Parameter	Description
0	NONE
1	AUTO

2	MANUAL
---	--------

5.Encode Type

Parameter	Description
0	NONE
1	H264
2	MJPEG
3	G711A
4	G711U
5	PCM
6	H265
7	AAC

6.Input Type

Parameter	Description
0	NONE
1	LINE
2	MIC

7.Color Mode

Parameter	Description
0	NONE
1	Color
2	BlackWhite

8.WDR Type

Parameter	Description
0	NONE
1	Close
2	Open
3	Open: low

9.Gamma Type

Parameter	Description
0	NONE
1	Gamma nomal
2	Gamma1
3	Gamma2
4	Gamma3

10.Nuc Type

Parameter	Description
0	NONE
1	Auto
2	Manual

11.Profile Type

Parameter	Description
0	Auto
1	Day

2	Night
---	-------

12.ICR Type

Parameter	Description
0	NONE
1	Active
2	Passive
3	Scheduled

13.Shutter Time

Parameter	Description
1	1/10
2	1/12
3	1/15
4	1/20
5	1/25(50HZ)
6	1/30(60HZ)
7	1/50(50HZ)
8	1/60(60HZ)
9	1/100(50HZ)
10	1/120(60HZ)
11	1/150
12	1/180
13	1/200
14	1/250
15	1/500
16	1/1000

17	1/2000
18	1/4000
19	1/8000

14.PTZCFG

Parameter	Description
0x1	Preset
0x2	Tour
0x4	Track
0x8	Wiper
0x10	Light
0x20	AutoTrack
0x40	Iris