

HTTP API of PTZ

Version 3.0.3

Release notes			
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1 Summary

This command is used for get/set PTZ preset, tour, track, operator ptz, etc.

2 Preset

2.1 Description

This command is used for get/set preset.

2.2 Grammar

Get:

```
http://<Device IP>/cgi/ptz.cgi?get=preset
```

Delete:

```
http://<Device IP>/cgi/ptz.cgi?act=preset_del&data=<?xml version="1.0"
encoding="utf-8"?><root><preset xxx /></root>
```

2.3 Parameter

Parameter	Value	Description
<preset>	index	
id	practical	Preset id
name	practical	Preset name
chn	practical	Internal parameter, can be ignored
type	practical	Internal parameter, can be ignored

2.4 Example

2.4.1 Get preset parameter

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?get=preset
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

```
<?xml version="1.0" encoding="GBK"?>
<root>
<preset id='1' name='preset' chn='0' type='255'/>
<preset id='2' name='123456' chn='0' type='255'/>
</root>
```

2.4.2 Delete preset

Example: Delete the preset with ID 1.

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?act=preset_del&data=<?xml version="1.0"
encoding="utf-8"?><root><preset id='1' /></root>
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

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

Note: You can only delete one at a time

3 Tour Configuration

3.1 Description

This command is used for get/set tour paramters.

3.2 Grammar

Get:

```
http://<Device IP>/cgi/ptz.cgi?get=tour
```

Delete:

```
http://<Device IP>/cgi/media.cgi?act=tour_del&data=<?xml version="1.0"
encoding="utf-8"?><root><tour xxx /></root>
```

3.3 Parameter

Parameter	Value	Description
<tour>	none	
id	index	Tour index
<point>	none	Preset in tour, maximum number is 32
used	index	0:Preset is unused; 1:Preset is used
preset_index	practical	Preset index
timein_terval	practical	Wait time during in this preset position, unit: s

3.4 Example

3.4.1 Get tour parameter

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?get=tour
```

RESPONSE

```
HTTP/1.0 200 OK
```

```
Content-type: text/plain;charset=utf-8
```

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<tour id='0'><point used='1' preset_index='1' timein_terval='3'/></tour>
<tour id='1'><point used='1' preset_index='2' timein_terval='11'/></tour>
<tour id='2'></tour>
<tour id='3'></tour>
<tour id='4'></tour>
<tour id='5'></tour>
<tour id='6'></tour>
<tour id='7'></tour>
</root>
```

3.4.2 Delete tour parameter

Example: Delete the tour parameter with ID 1.

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?act=tour_del&data=<?xml version="1.0"
encoding="utf-8"?><root><tour id='1' /></root>
```

RESPONSE

```
HTTP/1.0 200 OK
```


Content-type: text/plain;charset=utf-8

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

```
<root>
```

```
<code>0</code>
```

```
<error>successful</error>
```

```
</root>
```

4 Track Configuration

4.1 Description

This command is used for get/set track configuration.

4.2 Grammar

Get:

```
http://<Device IP>/cgi/ptz.cgi?get=track
```

Delete:

```
http://<Device IP>/cgi/ptz.cgi?act=track_del&data=<?xml version="1.0"
encoding="utf-8"?><root><track xxx /></root>
```

4.3 Parameter

Parameter	Value	Description
<track>	none	
id	index	Track index
timein_terval	practical	Running interval, unit: ms

4.4 Example

4.4.1 Get all track paramaters

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?get=track
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

```
<?xml version="1.0" encoding="utf-8"?>
<root>
<track id='0' timein_terval='4197'/><track id='1' timein_terval='16'/><track id='2'
timein_terval='2628'/></root>
```

4.4.2 Delete track parameters

Example: Delete the track parameters with ID 1.

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?act=track_del&data=<?xml version="1.0"
encoding="utf-8"?><root><track id='1' /></root>
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

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

5 PTZ Operation

5.1 Description

This command is used for control PTZ.

5.2 Grammar

```
http://<Device IP>/cgi/ptz.cgi?act=ptz_ctrl&data=<?xml version="1.0"
encoding="utf-8"?><root><ptz_ctrlal xxx /></root>
```

5.3 Parameter

Parameter	Value	Description
<ptz_ctrlal>	none	
cmd	practical	Command Code , refer to PTZ Command
data1	practical	Parameter 1, refer to PTZ Command
data2	practical	Parameter 2, refer to PTZ Command

5.4 Example

5.4.1 Control PTZ

REQUEST

```
http://192.168.2.172/cgi/ptz.cgi?act=ptz_ctrl&data=<?xml version="1.0"
encoding="utf-8"?><root><ptz_ctrlal cmd=1 data1=0 data2=0 /></root>
```

RESPONSE

```
HTTP/1.0 200 OK
```

Content-type: text/plain;charset=utf-8

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

```
<root>
```

```
<code>0</code>
```

```
<error>successful</error>
```

```
</root>
```

6 PTZ Configuration

5.1 Description

Configure parameters for PTZ idle action, power-up operation, auto-tracking, etc.

5.2 Grammar

Get PTZ configuration:

```
http://<Device IP>/cgi/ptz.cgi?get=ptz
```

Set PTZ configuration:

```
http://<Device IP>/cgi/media.cgi?set=ptz&data=<?xml version="1.0"
encoding="utf-8"?><root><ptz xxx /></root>
```

5.3 Parameter

Parameter	Value	Description
<ptz>	none	
ch	index	Channel index
watchenable	practical	Enable idle action.0-disable,1-enable
watchactiontype	practical	Idle action, 0-preset
watchaction	practical	Idle action ID
watchtime	practical	Idle action duration, unit/ms
poweractiontype	practical	Power on action: 0-none, 1-tour, 2-trace 3-preset, 4-last action
poweraction	practical	Power on action ID. Tour/TRACK/Preset
autotrackenable	practical	Enable auto-tracking
targetlostreturntime	practical	Target loss return times, unit:s

5.4 Example

5.4.1 Get PTZ configuration parameters

REQUEST

```
http://192.168.2.227/cgi/ptz.cgi?get=ptz
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

```
<?xml version="1.0" encoding="utf-8"?>
<root>
  <version version='3' />
  <ptz ch='0' address='1' protocol='0' uart_no='0' watchenable='0' watchaction='1'
watchtime='120000'
      watchactiontype='3' poweractiontype='1' poweraction='0' sensortype='0'
powertime='5000' zoompos='0' panpos='0'
      tiltpos='0' memoryoperatetype='0' memoryoperate='0' autotrackenable='0'
targetlostreturntime='30' />
</root>
```

5.4.2 Set PTZ configuration parameters

Example: Enable idle action.

REQUEST

```
http://192.168.2.227/cgi/ptz.cgi?set=ptz&data=<?xml version="1.0" encoding="utf-8"?><root><ptz ch='0'
watchenable='1' watchaction='1' watchtime='120000' watchactiontype='3' poweractiontype='1'
poweraction='0' sensortype='0' powertime='5000' zoompos='0' panpos='0' tiltpos='0'
memoryoperatetype='0' memoryoperate='0' autotrackenable='0' targetlostreturntime='30' /></root>
```

RESPONSE

HTTP/1.0 200 OK

Content-type: text/plain;charset=utf-8

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

```
<root>
```

```
<code>0</code>
```

```
<error>successful</error>
```

```
</root>
```


Appendix

1 PTZ Command

Command	Meaning
0	Up (data2: Speed)
1	Down (data2: Speed)
2	Left (data1: Speed)
3	Right (data1: Speed)
4	Left up (data1、 data2: Speed)
5	Left down (data1、 data2: Speed)
6	Right up (data1、 data2: Speed)
7	Right down (data1、 data2: Speed)
8	Focus near
9	Focus far
10	Iris+
11	Iris-
12	Zoom far
13	Zoom near
14	Stop
15	Scan open
16	Scan close
17	Light open
18	Light close
19	Wiper open

20	Wiper close
21	Water open
22	Water close
23	Set preset (data2: ID)
24	Call preset (data2: ID)
25	Clear preset (data2: ID)
26	Rotate 180 degree
27	Return to zero position
28	Reset
29	Start tour (data1: ID)
30	Stop tour (data1: ID)
31	
32	
33	
100	Top limit
101	Bottom limit
102	Left limit
103	Right limit
104	Insert preset into tour
105	Remove preset from tour
106	Begin record track (data1: ID)
107	Stop record track (data1: ID)
108	Run track (data1: ID)
109	Stop track (data1: ID)
110	Set pan position

111	Tilt position
112	Up limit clear
113	Down limit clear
114	Left limit clear
115	Right clear
116	