

From  
STDN/SPPOur Reference  
Gregor Wegrzynek

Tel

Fax

Nürnberg  
31 August 2012**Technical information**Topic **BICOM PTZ quick reference**

## 1 Overview

This collection of selected BICOM commands gives a quick help for PTZ integration.

### 1.1 Pan

Turn left where x is the speed (15 speeds possible from 0x1-0xF)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060110850X0000
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060110850F0000
```

Turn right where x is the speed (15 speeds possible from 0x1-0xF)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060110858X0000
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060110858F0000
```

### 1.2 Tilt

Go up where x is the speed (15 speeds possible from 0x1-0xF)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085008X00
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085008F00
```

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Go down where x is the speed (15 speeds possible from 0x1-0xF)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085000X00
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085000F00
```

### 1.3 Zoom

Zoom out where x is the speed (7 speeds possible from 0x1-0x7)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000601108500000X
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085000007
```

Zoom in where x is the speed (7 speeds possible from 0x1-0x7)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000601108500008X
```

Example:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085000087
```

Stop command for Pan, Tilt and Zoom

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x800006011085000000
```

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### 1.4 Prepositions

Set preposX where x is the present number (99 Presets possible 0x01-0x63)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000201B0800704XX
```

Example:

Set prepos1

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000201B080070401
```

Show preposX where x is the present number (99 Presets possible 0x01-0x63)

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000201B0800705XX
```

Example:

Show prepos1

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x80000201B080070501
```

### 1.5 Other

Record Tour A:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060160800002
```

Stop Recording:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060160830000
```

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### Replay Tour A in a loop:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060160810001
```

### Replay Tour A once:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060160820001
```

### Stop Replay A:

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8000060160830000
```

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## 1.6 Absolute Positioning

To get the degree of **PAN** you can use the following command:

```
http://160.10.39.80/rcp.xml?command=0x09A5&type=P_OCTET&direction=WR  
ITE&num=1&payload=0x810006011201
```

To get the degree of **TILT** you can use the following command:

```
http://160.10.39.80/rcp.xml?command=0x09A5&type=P_OCTET&direction=WR  
ITE&num=1&payload=0x810006011301
```

The result is in radians x 10000. To get the degrees, you need to convert it first.

Example result:

0xf491 --> Decimal: 62609

Get the real radian value:  $62609 / 10000 = 6.29609$

Get the degrees:  $(6.29609 / (2 * \pi)) * 360 = 358.56$  degrees

In order to move the dome to a specific preposition you need to use payload 0x810006011203xxxx with the radian \* 10000 value instead of xxxx.

Example to Pan 30°:

$30 / 360 * 2 * \pi = 0.5236$

$0.5236 * 1000 = 5236$

5236 → 0x1474

```
http://160.10.52.100/rcp.xml?command=0x09A5&type=P_OCTET&direction=W  
RITE&num=1&payload=0x8100060112031474
```