

IC-3010 (Wg) CGI commands V1.1

1. JPEG image commands

1.1 Get one JPEG image

Method: Get

URL: HTTP://camera_ip/jpg/image.jpg

Return: One JPEG image will be transferred to client.

1.2 Get one JPEG image without any authentication

Method: Get

URL: HTTP://camera_ip/loginfree.jpg

Return: One JPEG image will be transferred to client.

Note: User maybe change the loginfree filename.

1.3 Get one JPEG video stream

Method: Get

URL: HTTP://camera_ip/mjpg/video.mjpg

Return: One multipart JPEG video stream will be transferred to client.

Format:

```
HTTP/1.0 200 OK\r\n
```

```
Content-Type: multipart/x-mixed-replace;  
              boundary=myboundary\r\n
```

```
\r\n
```

```
--myboundary\r\n
```

```
Content-Type: image/jpeg\r\n
```

```
Content-Length: 15656\r\n
```

```
\r\n
```

```
<JPEG image data>\r\n
```

```
--myboundary\r\n
```

```
Content-Type: image/jpeg\r\n
```

```
Content-Length: 14978\r\n
```

```
\r\n
```

```
<JPEG image data>\r\n
```

```
--myboundary\r\n
```

```
Content-Type: image/jpeg\r\n
```

```
Content-Length: 15136\r\n
```

```
\r\n
```

```
<JPEG image data>\r\n
```

```
--myboundary\r\n
```

```
. . . . .
```

2. System commands

2.1 Get system information and configuration

2.1.1 Get image properties supported by camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Properties.Image`

Return: Image resolution, rotation and format supported by camera

Example:

```
root.Properties.Image.Rotation=0
```

```
root.Properties.Image.Resolution=640x480,320x240,160x120
```

```
root.Properties.Image.Format=mjpeg,mpeg4
```

Description: Camera doesn't support rotation, supports 3 kinds of resolution and supports MJPEG and MPEG4 format.

2.1.2 Get MJPEG image properties supported by camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Properties.Image.I0`

Return: MJPEG Image resolution, rotation and format supported by camera

Example:

```
root.Properties.Image.I0.Rotation=0
```

```
root.Properties.Image.I0.Resolution=640x480,320x240,160x120
```

```
root.Properties.Image.I0.Format=mjpeg
```

Description: Camera doesn't support rotation, supports 3 kinds of resolution and supports MJPEG format.

2.1.3 Get MPEG4 image properties supported by camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Properties.Image.I1`

Return: MPEG4 Image resolution, rotation and format supported by camera

Example:

```
root.Properties.Image.I1.Rotation=0
```

```
root.Properties.Image.I1.Resolution=640x480,320x240
```

```
root.Properties.Image.I1.Format=mpeg4
```

Description: Camera doesn't support rotation, supports 2 kinds of resolution and supports MPEG4 format.

2.1.4 Get current camera configuration of resolution and JPEG quality

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Image.I0.Appearance`

Return: Current configuration of JPEG resolution and JPEG quality

Example:

root.Image.I0.Appearance.Resolution=640x480

root.Image.I0.Appearance.Compression=0

Compression: value range is 0~4

0:low 4:high

2.1.5 Get current camera configuration of resolution and MPEG4 quality

Method: Get

URL: http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group= Image.I1.Appearance

Return: Current configuration of resolution and MPEG4 quality

Example:

root.Image.I1.Appearance.Resolution=640x480

root.Image.I1.Appearance.stats=compression

root.Image.I1.Appearance.compression=3

stats: compression for VBR, bitrate for CBR

Compression: value range is 11~3 (Lowest:11、Low:9、Normal:7、High:5、
Highest:3)

2.1.6 Get MJPEG current FPS value of camera

Method: Get

URL: http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group= Image.I0.Stream

Return: Current FPS value of camera (frame rate per second)

Example:

Image.I0.Stream.FPS=15

MJPEG only.

2.1.7 Get MPEG4 Mode current FPS value of camera

Method: Get

URL: http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group= Image.I1.Stream

Return: Current FPS value of MPEG4 camera (frame rate per second)

Example:

Image.I1.Stream.FPS=15

MPEG4 only.

2.1.8 Get default video format

Method: Get

URL: http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Layout

Return: Camera default video format (mjpeg or mpeg4 video mode)

Example:

Layout.DefaultVideoFormat=mpeg4

2.1.9 Get information about the brand

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Brand`

Return: Information about the brand and type of camera

Example:

```
root.Brand.Brand=EDIMAX
root.Brand.ProdFullName=EDIMAX IC-3010 Network Camera
root.Brand.ProdShortName=EDIMAX IC-3010
root.Brand.ProdNbr=IC-3010
root.Brand.ProdType=Network Camera
root.Brand.WebURL=http://www.edimax.com.tw/
```

2.1.10 Get hardware MAC address of camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.Interface.I0.Active.MACAddress`

Return: Hardware MAC address of camera

Example:

```
Network.Interface.I0.Active.MACAddress=00:11:09:15:10:AB
```

2.1.11 Get Firmware Version, Model ID and Vendor ID

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Properties.Firmware`

Return: Firmware version, Model ID and Vendor ID of camera

Example:

```
Properties.Firmware.Version=v1.32
Properties.Firmware.ModelID=12
Properties.Firmware.VendorID=1
```

2.1.12 Get web port number

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=System.HTTPPort`

Return: web port number

Example:

```
System.HTTPPort=80
```

2.1.13 Get private video port number

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group= System.PrivateVideoPort`

Return: web port number

Example:

`System.PrivateVideoPort=4321`

2.1.14 Get MaxUsers and CurrentUsers Number

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group= Properties.VideoServer`

Return: **MaxUsers and CurrentUsers Number**

Example:

`Properties.VideoServer.MaxUsers=16`

`Properties.VideoServer.CurrentUsers=2`

2.2 Set system configuration

2.2.1 Set resolution of MJPEG camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Resolution=Width X Height`

Parameters: 640x480, 320x240, 160x120

Example: Set resolution to 320X240

`http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Resolution=320x240`

MJPEG only.

2.2.2 Set resolution of MPEG4 camera

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.Resolution=Width X Height`

Parameters: 640x480, 320x240

Example: Set resolution to 320X240

`http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.Resolution=320x240`

MPEG4 only.

2.2.3 Set JPEG compression level

Method: Get

URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Compression=Compression Level`

Parameters: value range is 0~4

0:low 4:high

Example: Set compression level to high

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Compression=4](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I0.Appearance.Compression=4)

2.2.4 Set MPEG4 video quality

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.stats=State](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.stats=State)

Parameters: State: 1-VBR 0-CBR

Example: Set MPEG4 video quality to CBR

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.stats=0](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.stats=0)

2.2.5 Set MPEG4 CBR Bitrate

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.bitrate=Bitrate](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.bitrate=Bitrate)

Parameters: Bitrate: 2000000 (2M bps) 、1500000 (1.5M bps) 、1000000 (1M bps) 、800000 (800K bps) 、500000 (500K bps) 、400000 (400K bps) 、300000 (300K bps) 、250000 (250K bps) 、200000 (200K bps) 、150000 (150K bps) 、100000 (100K bps) 、50000 (50K bps)

Example: Set MPEG4 CBR Bitrate to 800K bps

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.
I1.Appearance.bitrate=800000](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.bitrate=800000)

2.2.6 Set MPEG4 VBR Compression

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.Compression=Compression Level](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.Compression=Compression Level)

Parameters: Compression Level: 11 (Lowest) 、9 (Low) 、7 (Normal) 、5 (High) 、3 (Highest)

Example: Set MPEG4 VBR Compression to Normal

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I1.Appearance.Compression=7](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I1.Appearance.Compression=7)

2.2.7 Set MJPEG camera FPS

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Stream.FPS=FPS](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I0.Stream.FPS=FPS)

Parameters: 1, 3, 5, 10, 15, 30

Example: Set FPS to 15

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I0.Stream.FPS=15](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I0.Stream.FPS=15)

MJPEG only.

2.2.8 Set MPEG4 camera FPS

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I1.Stream.FPS=FPS](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I1.Stream.FPS=FPS)

Parameters: 1, 3, 5, 10, 15, 30

Example: Set FPS to 15

[http://192.168.2.114/camera-cgi/admin/param.cgi?action=update
&Image.I1.Stream.FPS=15](http://192.168.2.114/camera-cgi/admin/param.cgi?action=update&Image.I1.Stream.FPS=15)

MPEG4 only.

3. Audio commands

3.1 Request an audio stream.

Method: Get

URL: [HTTP://camera_ip/camera-cgi/audio/receive.cgi](http://camera_ip/camera-cgi/audio/receive.cgi)

Return: Get a Multipart Audio data stream from IPCam.

Format:

HTTP/1.0 200 OK\r\n

Content-Type: audio/basic\r\n

\r\n

<Audio data>

<Audio data>

<Audio data>

.
.
.

Example:

<http://192.168.2.114/camera-cgi/audio/receive.cgi>

3.2 Get Audio Status.

Method: Get

URL: [HTTP://camera_ip/camera-cgi/admin/param.cgi?action=list&
group=Properties.Audio](http://camera_ip/camera-cgi/admin/param.cgi?action=list&group=Properties.Audio)

Return: Audio and TwoWayAudio Status (yes or disabled)

Example:

[Properties.Audio=yes](#)

[Properties.Audio.TwoWayAudio=yes](#)

[Properties.Audio.AudioCodec=GSM 06.10](#)

[Properties.Audio.TwoWayAudioCodec=GSM 06.10](#)