

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=640x480,320x240,176x144
root.Properties.Image.Format=jpeg,mjpeg
Description: Camera doesn't support rotation, supports 3 kinds of
resolution and supports JPEG format only.

2.1.2 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 resolution and JPEG quality

Example:

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

```
root.Image.I0.Appearance.Compression=0
```

```
Compression: value range is 0~100
```

```
0: Highest quality, large image size
```

```
100: Lowest quality, small image size
```

2.1.3 Get 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=30
```

2.1.4 Get current configuration of camera sensor

Method: Get

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

Return: Current brightness and contrast □Saturation□Hue value

Example:

```
ImageSource.I0.Sensor.Brightness=50
```

```
ImageSource.I0.Sensor.Contrast=50
```

```
ImageSource.I0.Sensor.Saturation=50
```

```
ImageSource.I0.Sensor.Hue=50
```

```
Brightness and Contrast □Saturation□Hue value range is 0~99
```

2.1.5 Get default video format

Method: Get

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

Return: Camera default video format

Example:

```
Layout.DefaultVideoFormat=mjpeg
```

2.1.6 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-1500/IC-1510 Network Camera
```

```
root.Brand.ProdShortName=EDIMAX IC-1500/IC-1510
```

```
root.Brand.ProdNbr=IC-1500/IC-1510
```

```
root.Brand.ProdType=Network Camera
```

```
root.Brand.WebURL=http://www.edimax.com.tw/
```

2.1.7 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`

2.1.8 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=8
Properties.Firmware.VendorID=1`

2.1.9 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`

2.1.10 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`

2.1.11 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`

2.1.12 Get FTP Server

Method: Get
URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.FTP.Server`
Return: **FTP Server**
Example:
`Network.FTP.Server=192.168.2.166`

2.1.13 Get FTP Username

Method: Get
URL: `http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.FTP.User`
Return: **FTP Username**
Example:
`Network.FTP.User=test`

2.1.14 Get FTP Password

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.FTP.Passwd](http://camera_ip/camera-cgi/admin/param.cgi?action=list&group=Network.FTP.Passwd)

Return: **FTP Password**

Example:

[Network.FTP.Passwd=test](#)

2.1.15 Get FTP Path

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.FTP.Path](http://camera_ip/camera-cgi/admin/param.cgi?action=list&group=Network.FTP.Path)

Return: **FTP Path**

Example:

[Network.FTP.Path=/](#)

2.1.16 Get FTP Port

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=list
&group=Network.FTP.Port](http://camera_ip/camera-cgi/admin/param.cgi?action=list&group=Network.FTP.Port)

Return: **FTP Port**

Example:

[Network.FTP.Port=21](#)

2.2 Set system configuration

2.2.1: Set resolution of camera

Method: Get

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

Parameters: 640x480, 320x240, 176x144

Example: Set resolution to 320X240

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

2.2.2: Set JPEG compression level

Method: Get

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

Parameters: 0~100,

0: Highest quality, large image size

100: Lowest quality, small image size

Example: Set compression level to 90

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Compression=90](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I0.Appearance.Compression=90)

2.2.3 Set 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, 20, 25, 30

Example: Set FPS to 20

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Stream.FPS=20](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Image.I0.Stream.FPS=20)

2.2.4 Set brightness of camera sensor

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Brightness=Brightness Level](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Brightness=Brightness Level)

Parameters: 0~99

Example: Set brightness to 60

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Brightness=60](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Brightness=60)

2.2.5 Set contrast of camera sensor

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Contrast=Contrast Level](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Contrast=Contrast Level)

Parameters: 0~99

Example: Set contrast to 60

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Contrast=60](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Contrast=60)

2.2.6 Set saturation of camera sensor

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Saturation=Saturation Level](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Saturation=Saturation Level)

Parameters: 0~99

Example: Set saturation to 50

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Saturation=50](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Saturation=50)

2.2.7 Set hue of camera sensor

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Hue=Hue Level](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Hue=Hue Level)

Parameters: 0~99

Example: Set hue to 50

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&ImageSource.I0.Sensor.Hue=50](http://camera_ip/camera-cgi/admin/param.cgi?action=update&ImageSource.I0.Sensor.Hue=50)

2.2.8 Set FTP Server

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Server=Server](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Server=Server)

Parameters: FTP Server

Example: Set FTP Server to 192.168.2.166

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Server=192.168.2.166](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Server=192.168.2.166)

2.2.9 Set FTP Username

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.User=Username](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.User=Username)

Parameters: FTP Username

Example: Set FTP Username to test

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.User=test](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.User=test)

2.2.10 Set FTP Password

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Passwd=Password](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Passwd=Password)

Parameters: FTP Password

Example: Set FTP Password to test

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Passwd=test](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Passwd=test)

2.2.11 Set FTP Path

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Path=Path](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Path=Path)

Parameters: FTP Path

Example: Set FTP Path to /

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Path=/](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Path=/)

2.2.12 Set FTP Port

Method: Get

URL: [http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Port=Port](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Port=Port)

Parameters: FTP Port

Example: Set FTP Port to 21

[http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Network.FTP.Port=21](http://camera_ip/camera-cgi/admin/param.cgi?action=update&Network.FTP.Port=21)