IC-1520DP(g) CGI commands V1.0

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=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 11, 20, 30, 40, 60

      11: Lowest quality, small image size

      60: Highest quality, large 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 value

Example:

ImageSource.I0.Sensor.Brightness=50

Brightness value range is 0~100

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

2.2 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
Parameters: 640x480, 320x240, 160x120
Example: Set resolution to 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
Parameters: 11, 20, 30, 40, 60
                11: Lowest quality, small image size
                60: Highest quality, large image size
Example: Set compression level to 60
http://camera_ip/camera-cgi/admin/param.cgi?action=update
&Image.I0.Appearance.Compression=60

2.2.3 Set brightness of camera sensor

Method: Get

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

Parameters: 0~100

Example: Set brightness to 60

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

2.2.4 Set camera FPS

Method: Get

URL: 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

3. PTZ commands

3.1 Determine whether camera supports PTZ function

Method: Get

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

Example:
Properties.PTZ.PTZ=yes

3.2 Move the image in the specified direction and offset.

Method: Get

URL: http://camera_ip/camera-cgi/com/ptz.cgi?move=direction&ptspeed=n

Parameters:

    direction: left, right, up, down, upleft, upright, downleft, downright,
               home

    n: 1(slow), 3, 5, 7 ,9(fast)

Example:

http://camera_ip/camera-cgi/com/ptz.cgi?move=left&ptspeed=9

3.3 Zoom the device n steps

Method: Get

URL: http://camera_ip/camera-cgi/com/ptz.cgi?zoom=n

Parameters:

    zoom: 0(full image), 1, 2

Note: 640X480 VGA only supports zoom=0 and zoom=1

Example:

http://camera_ip/camera-cgi/com/ptz.cgi?zoom=1

3.4 Move the image to preset point

Method: Get

URL: http://camera_ip/camera-cgi/com/ptz.cgi?gotoserverpresetname=name

Parameters:

    name: Preset point name

Example:

http://camera_ip/camera-cgi/com/ptz.cgi?gotoserverpresetname=myroom

3.5 Add a preset point with current image coordinate and zoom configuration

Method: Get

URL: http://camera_ip/camera-cgi/com/ptzconfig.cgi?
    setserverpresetname=name

Parameters:

    name: Preset point name

Example:

http://192.168.2.168/camera-cgi/com/ptzconfig.cgi?
setserverpresetname=myroom

3.6 Remove a preset point

Method: Get

URL: http://camera_ip/camera-cgi/com/ptzconfig.cgi?
    removeserverpresetname=name

Parameters:

    name: Preset point name

Example:

http://192.168.2.168/camera-cgi/com/ptzconfig.cgi?
removeserverpresetname=myroom

3.7 Continuous Pan Tilt Move

Method: Get

URL: http://camera_ip/camera-cgi/com/ptz.cgi?
continuouspantiltmove=X,Y

Parameters:

    X: x>0 right(pan) , x<0 left(pan) , x=0 stop

    Y: y>0 tilt(up) , y<0 tilt(down) , y=0 stop

Example:

http://192.168.2.168/camera-cgi/com/ptz.cgi?
continuouspantiltmove=30,-30