

**URL command for  
DCS-5300/G, DCS-2100/G/+,  
DCS-2000, DVS-301**

---

Version 1.0C

**2007/6/6**

Drive the digital output

**Note:** This request requires the privilege of I/O access control.

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/setdo.cgi?do=<state>
```

Where state is H, L. H means NC (normal close) connected with COMMON and L means NO (normal open) connected with COMMON. The number of DO dependents on the server type.

When used in the camera server with single digital output, we can use do=<state> instead of do1=<state>.

parameter	Value	description
do	<state>	H – NC connected with COMMON
		L – NO connected with COMMON
return	<return page>	Redirect to the page <return page> after the parameter is assigned. The <return page> can be a full URL path or relative path according the the current path. If you omit this parameter, it will redirect to an empty page.

**Example:** Drive the digital output 1 to high and redirect to an empty page

```
http://myserver/cgi-bin/setdo.cgi?do=H
```

## Query status of the digital input

**Note:** This request requires the privilege of I/O access control.

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/getdi.cgi
```

**Return:**

```
HTTP/1.0 200 OK\r\n
Content-Type: image/jpeg\r\n
Content-Length: <length>\r\n
\r\n
[di= <state>]\r\n
```

where <state> can be H or L.

Example: Query the status of digital input 1

Request:

```
http://myserver/cgi-bin/getdi.cgi
```

Response:

```
HTTP/1.0 200 OK\r\n
Content-Type: text/plain\r\n
Content-Length: 7\r\n
\r\n
di=H\r\n
```

## Capture single snapshot

**Note:** This request require normal user privilege

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/video.jpg[?size=<value>]
```

parameter	Value	description
<b>size</b>	1, 2, 3	1 => half 2 => normal 3 => double

Server will return the most up-to-date snapshot in JPEG format. The size and quality of image will be set according to the JPEG settings on the server, except DCS-5300/G. DCS-5300/G will use the size parameter instead.

**Return:**

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

```
Content-Type: image/jpeg\r\n
[Content-Length: <image size>\r\n]

<binary JPEG image data>
```

## System Information

**Note:** This request requires normal user privilege

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/sysinfo.cgi
```

Server will return the system information.

**Return:**

```
HTTP/1.0 200 OK\r\n
Content-Type: text/plain\r\n
Content-Length: <system information length>\r\n
\r\n
Model=<model name of server>\r\n
HostName=<host name of server>\r\n
Location=<video on text of server>\r\n
[Preset<1>=<first preset location>\r\n]
[Preset<2>=<second preset location>\r\n]
[...]
PTZEnabled=<PTZ status>\r\n
```

Where the <PTZ status> is a 32-bits integer, each bit can be set separately as follows:

Bit 0=> Support camera control function 0(not support), 1(support)

Bit 1=> **Build-in** or **external** camera. 0(external), 1(build-in)

Bit 2=> Support **pan** operation. 0(not support), 1(support)

Bit 3=> Support **tilt** operation. 0(not support), 1(support)

Bit 4=> Support **zoom** operation. 0(not support), 1(support)

Bit 5=> Support **focus** operation. 0(not support), 1(support)

## Configuration file

**Note:** This request requires administrator privilege

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/admin/configfile.cgi
```

Server will return the up-to-date configuration file.

**Return:**

```
HTTP/1.0 200 OK\r\n
Content-Type: text/plain\r\n
Content-Length: <configuration file length>\r\n
\r\n
<configuration data>\r\n
```

## Set the motion detection windows

**Note:** This request requires the privilege of I/O access control.

**Method:** GET

**Syntax:**

```
http://<servername>/setup/setmd.cgi?<parameter>=<state>[&
<parameter>=<value>...]
```

The sequence of the parameter to be set can be free. The parameters which is not in the command will be the original value. To enable the motion detection, please refer to `http://<servername>/setup/video.cgi`.

Example: Query the status of digital input 1

```
http://myserver/setup/setmd.cgi?x1=100&n3=win3&y2=200
```

parameter	Value	description
<b>n&lt;1~3&gt;</b>	<text string shorter than 14 characters>	Window name

<b>x&lt;1~3&gt;</b>	0~352	The x-coordinate of top left point
<b>y&lt;1~3&gt;</b>	0~240(288)	The y-coordinate of top left point
<b>w&lt;1~3&gt;3</b>	0~352	The width of the motion window
<b>h&lt;1~3&gt;</b>	0~240(288)	The height of the motion window
<b>p&lt;1~3&gt;</b>	0~100	The percentage of the motion
<b>t&lt;1~3&gt;</b>	0~100	The threshold of the motion

## For camera control model only

### Camera control

**Note:** This request requires camera control access privilege

**Method:** GET/POST

**Syntax:**

```

http://<servername>/cgi-bin/camctrl.cgi?
[move=<value>] [&speedpan=<value>] [&speedtilt=<value>]
[&speedapp=<value>] [&auto=<value>] [&zoom=<value>]
[&focus=<value>] [&return=<return page>]

```

parameter	value	description
move	home	Move to camera to home position
	up	Move camera up
	down	Move camera down
	left	Move camera left
	right	Move camera right
zoom	wide	Zoom in
	tele	Zoom out
focus	near	Focus near
	far	Focus far
speedpan	-5 ~ 5	Set the pan speed

speedtilt	-5 ~ 5	Set the tilt speed
speedapp	-5 ~ 5	Set the auto pan/patrol speed
auto	<i>pan</i>	Auto pan
	<i>patrol</i>	Auto patrol
	<i>stop</i>	Stop camera
return	<return page>	Redirect to the page <return page> after the parameter is assigned. The <return page> can be a full URL path or relative path according to the current path. If you omit this parameter, it will redirect to an empty page.

## Recall

**Note:** This request requires camera control access privilege

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/recall.cgi?
recall=<value>[&return=<return page>]
```

parameter	value	description
recall	Text string less than 30 characters	One of the present positions to recall.
return	<return page>	Redirect to the page <return page> after the parameter is assigned. The <return page> can be a full URL path or relative path according to the current path. If you omit this parameter, it will redirect to an empty page.

# For com/rs485 port model only

## Send data

**Note:** This request requires camera control access privilege

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/senddata.cgi?  
data=<value>&flush=<value>&wait=<value>&read=<value>
```

parameter	value	description
data	<hex decimal data>[,<hex decimal data>]	The <hex decimal data> is a series of digit within 0 ~ 9, A ~ F. Each comma separates the commands by 200 milliseconds.
flush	yes	receive data buffer of COM port will be cleared before read
	no	do not clear the receive data buffer
wait	1 ~ 65535	wait time in milliseconds before read data
read	1 ~ 128	the data length in bytes to read. The read data will be in return page.

**Return:**

```
HTTP/1.0 200 OK\r\n  
Content-Type: text/plain\r\n  
Content-Length: <system information length>\r\n  
\r\n  
<hex decimal data>\r\n
```

Where is hex decimal data is a series of digit within 0 ~ 9, A ~ F

# System configuration URL

## Video configuration URL

**Note:** This request require administrator access

**Method:** POST

**URL:** /setup/video.cgi

NAME	VALUE	DESCRIPTION	
text (r/w)	<text string shorter than 16 characters>	Text on video	
color (r/w)	B/W	Black and white	
	COLOR	Color video	
size (rw)	1 ~ 5	Video size: Half, halfx2, normal, normalx2, double	
quality (r/w)	fixb	Fixed bit rate	
	fixq	Fixed quality	
quan (r/w)	1 ~ 5	Video quality: Medium, standard, good, detailed, excellent	
bitrate (r/w)	36000, 100000, 228000 356000, 484000, 740000, 972000, 1172000	Bit rate	
mode (r/w)	CCD	Auto	Auto detection
		NTSC	NTSC
		PAL	PAL
	CMOS	60Hz	synchronize with 60Hz utility
		50Hz	synchronize with 50Hz utility
wb (r/w)	1 ~ 4	Auto, Indoor, Fluorescent, Outdoor	
frame (r/w)	1, 2, 3, 5, 10, 15, 20	Frame rate	

flip (r/w)	yes, no	Video flip
mirror (r/w)	yes, no	Video mirror
enablemd (r/w)	yes, no	Enable/disable motion detection
action (r/w)	change	Change the status of enable/disable motion detection. Without setting this parameter, it will change the status of flip and mirror.