

# **URL command for DVS-104**

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Version 1.0A

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Drive the digital output

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

**Method:** GET

[/cgi-bin/setdo.cgi?do1=<state>](#)

<state>: C, O denoting Normal Close or Normal Open respectively.

**Syntax:**

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

Where number is 1 or 2 or 3 or 4, depending on the number of DO's for that model and which DO you intend to setup. State is C, O. C means NC (normal close) connected with COMMON and O means NO (normal open) connected with COMMON. The number of DO depends 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<number>	<state>	C – NC connected with COMMON
		O – 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?do1=C>

## 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\nContent-Type: image/jpeg\r\nContent-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\nContent-Type: text/plain\r\nContent-Length: 7\r\n\r\ndi=H\r\n
```

## Query MJPEG stream

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

**Method:** GET

**Syntax:**

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

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.

size	Half	set size to half
	Standard	set size to standard
	Double	set size to double

quality	Medium	lowest resolution
	Standard	lower resolution
	Good	normal setting
	Detailed	higher resolution
	Excellent	highest resolution

**Return:**

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

<binary MJPEG stream data>
```

## Capture single snapshot

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

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/video1.jpg
[?size=<value>] [&quality=<value>]
```

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.

size	Half	set size to half
	Standard	set size to standard
	Double	set size to double
	Half x 2	set size to half x 2
	Standard x 2	set size to standard x 2
quality	Medium	lowest resolution
	Standard	lower resolution
	Good	normal setting
	Detailed	higher resolution
	Excellent	highest resolution

**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]
[...]\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\nContent-Type: text/plain\r\nContent-Length: <configuration file length>\r\n\r\n<configuration data>\r\n
```

## For camera control model only

### Camera control

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

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/control.cgi?  
[move=<value>] [&zoom=<value>] [&focus=<value>]  
[&panspeed=<value>] [&tiltspeed=<value>]
```

parameter	Value	description
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move	up	Tilt up
	down	Tilt down
	left	Pan left
	right	Pan right
	home	Return to home position
zoom	wide	Zoom in
	tele	Zoom out
focus	near	Focus near
	far	Focus far
	auto	Automatic focus
panspeed	-5 ~ 5	
tiltspeed	-5 ~ 5	

## Preset location add/delete

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

**Method:** GET

### Syntax:

```
http://<servername>/cgi-bin/camerasettings.cgi?
[addpos=<value>] [&delpos=<value>]
```

parameter	Value	description
addpos	<text string shorter than 40 characters>	add preset position
delpos	<existing position name>	delete preset position

## Recall

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

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/recall.cgi?
recall=<value>
```

parameter	value	description
recall	Text string less than 30 characters	One of the present positions to recall.

## 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\nContent-Type: text/plain\r\nContent-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

# For 4-channel video server only

## Camera control

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

**Method:** GET

### Syntax:

```
http://<servername>/cgi-bin/control.cgi?  
[cam<value>=<value>]  
[&move=<value>] [&zoom=<value>] [&focus=<value>]  
[&panspeed=<value>] [&tiltspeed=<value>]
```

parameter	value	description
cam	1	Video 1
	2	Video 2
	3	Video 3
	4	Video 4
move	up	Tilt up
	down	Tilt down
	left	Pan left
	right	Pan right
	home	Return to home position
zoom	wide	Zoom in
	tele	Zoom out
focus	near	Focus near
	far	Focus far
	auto	Automatic focus
panspeed	-5 ~ 5	
tiltspeed	-5 ~ 5	

## Camera preset configuration URL

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

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/prset.cgi?  
com=<value>&cam=<value>&camtype=<value>&id=<value>  
&addpos=<value>&delpos=<value>
```

URL: /cgi-bin/preset.cgi

parameter	value	description
com	1, 2	Com port number
cam	<1 ~ 4>	Video channel number
camtype	fixed	fixed camera
	cammap	PTZ camera
id	<integer>	camera id
addpos	<text string shorter than 40 characters>	add preset position
delpos	<existing position name>	delete preset position

## Recall camera position

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

**Method:** GET

**Syntax:**

```
http://<servername>/cgi-bin/recall.cgi?  
cam<value>=<value>&recall=<value>
```

parameter	value	description
cam	1 or 2 or 3 or 4	Video source
recall	Text string less than 30 characters	One of the present positions to recall.

# System configuration URL

## Video configuration URL

**Note:** This request require administrator access

**Method:** POST

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

\* red part is only for IP2111/IP2121,IP2112/IP2122 & VS2101

parameter	Value	description
time	<not required>	enclose timestamp
Text	<text string shorter than 15 characters>	enclose caption
color	B/W	set encoder to monochrome
	<other than B/W>	set encoder to color
size	Half	set size to half
	Standard	set size to standard
	Double	set size to double
	Half x 2	set size to half x 2
	Standard x 2	set size to standard x 2
quality	Medium	lowest resolution
	Standard	lower resolution
	Good	normal setting
	Detailed	higher resolution
	Excellent	highest resolution
limit	Not limited	use full network bandwidth
	64Kbits/second	use only 64Kbps of bandwidth
	128Kbits/second	use only 128Kbps of bandwidth
	256Kbits/second	use only 256Kbps of bandwidth
	512Kbits/second	use only 512Kbps of bandwidth
	768Kbits/second	use only 768Kbps of bandwidth
	1Mbits/second	use only 1Mbps of bandwidth
	1.5Mbits/second	use only 1.5Mbps of bandwidth

	2Mbits/second	use only 2Mbps of bandwidth
frame	1~30	frame rate

## Image Quality configuration URL

**Note:** This request require administrator access

**Method:** POST

**URL:** /setup/image.cgi

\* red part is only for VS2402

parameter	Value	description
cam	<1 ~ 4>	Video channel number
brightness	<-5 ~ 5>	adjust brightness of image
contrast	<-5 ~ 5>	adjust contrast of image
hue	<-5 ~ 5>	adjust hue of image
saturation	<-5 ~ 5>	adjust saturation of image
preview	<not required>	not save the parameters
restore	<not required>	recall the original settings
save	<not required>	save the parameters
frame	1~30	frame rate