

infobit iCam VB80 Platform API Commands



# infobit iCam VB80 Platform API Commands Instructions

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infobit iCam VB80 Platform API Commands



## Product Information

### Specifications:

- **Product Name:** iCam VB80
- **Document Version:** V1.0.3
- **Platform:** API Commands Manual
- **Website:** [www.infobitav.com](http://www.infobitav.com)
- **Email:** [info@infobitav.com](mailto:info@infobitav.com)

## Product Usage Instructions

### Introduction

#### 1. Preparation

To begin using the iCam VB80, follow these steps:

- Setting IP Address in Your Computer
- Enabling Telnet Client

#### 2. Logging In via Command-line Interface

Access the command-line interface to interact with the device.

#### 3. API Commands Overview

Understand the different API commands available for configuration and control.

## Command Sets

### gbconfig Commands

Configure settings related to the camera and video using the following commands:

### Camera:

- `gbconfig --camera-mode`
- `gbconfig -s camera-mode`

**Video:**

- `gbconfig --hdcg-enable`

**Frequently Asked Questions (FAQ)**

- **Q: How do I update the firmware of iCam VB80?**  
A: To update the firmware, please visit our website for detailed instructions and downloads.
- **Q: Can I use iCam VB80 with third-party software?**  
A: Yes, iCam VB80 supports integration with third-party software using the provided API commands.

**Revision History**

Doc Version	Date	Contents	Remarks
V1.0.0	2022/04/02	initial	
V1.0.1	2022/04/22	Revised typo	
V1.0.2	2023/06/05	Add new API	
V1.0.3	2024/03/22	Modified	

**Introduction**

**Preparation**

This section takes a third-party control device Windows 7 as an example. You may also use other control devices.

**Setting IP Address in Your Computer**

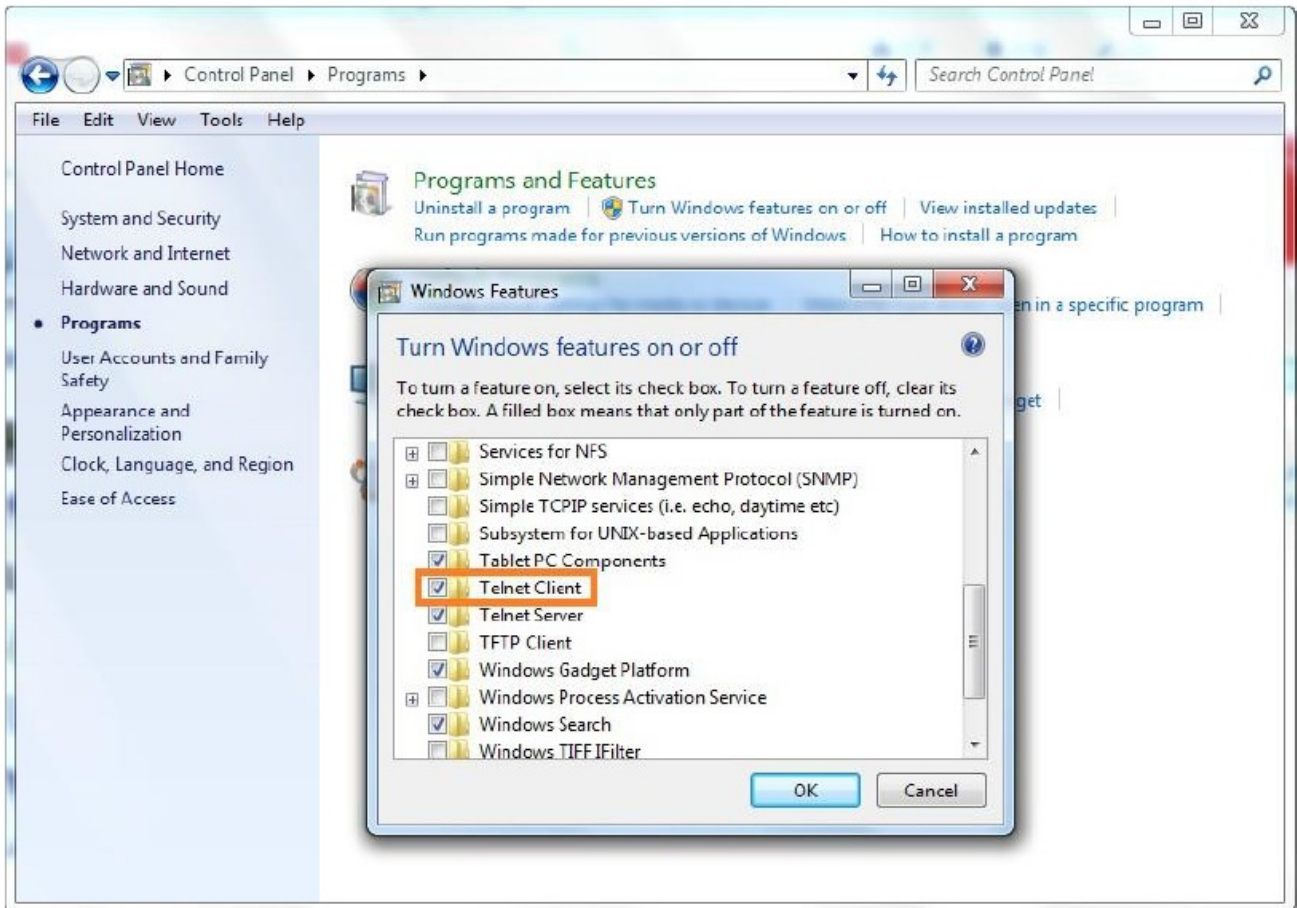
The detailed operation steps are omitted here.

**Enabling Telnet Client**

Before logging in to the device via the command-line interface, make sure that Telnet Client is enabled. By default, Telnet Client is disabled in Windows OS. To turn on Telnet Client, do as follows.

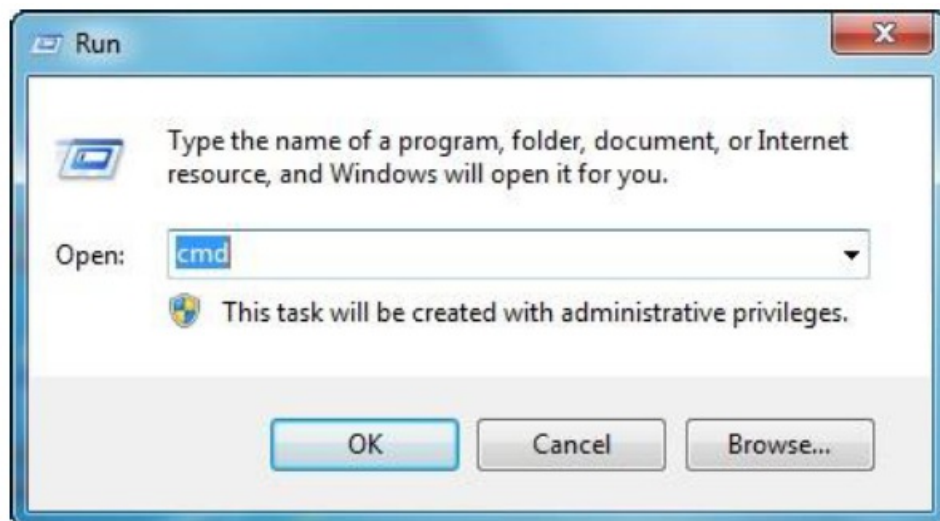
1. Choose Start > Control Panel > Programs.
2. In the Programs and Features area box, click Turn Windows features on or off.

3. In the Windows Features dialog box, select the Telnet Client check box.



### Logging In via Command-line Interface

1. Choose Start > Run.
2. In the Run dialog box, enter cmd then click OK.



3. Input telnet x.x.x.x 23. "23" is the port number.

For example, if the device's IP address is 192.168.20.140, input telnet 192.168.20.140 23 and then press Enter.

```
C:\Users\DQA>telnet 192.168.20.140 23
```

4. When the device prompts login, input admin and press Enter, then the device prompts password, just press Enter directly because the user admin has no default password.

```
username:admin
password:
Welcome to VB10
~ #
```

“The device is ready to execute the CLI API command. The status will show Welcome to VB10/ VB80.”

#### API Commands Overview

This device’s API commands are mainly classified into the following types.

- **gbconfig**: manage the configurations of the device.
- **gbcontrol**: control the device to do something.

#### gbconfig Commands

gbconfig commands are mainly classified into two types gbconfig and gbconfig –s commands.

Commands	Description
gbconfig –camera-mode	Set the camera's tracking mode for the device.
gbconfig -s camera-mode	Get the camera's tracking mode for the device.
gbconfig –camera-zoom	Set the camera's zoom.
gbconfig -s camera-zoom	Get the camera's zoom.
gbconfig –camera-savecoord	Save the coordinates as preset 1 or preset 2.
gbconfig -s –camera-savecoord	Get which preset corresponds to the coordinates.
gbconfig –camera-loadcoord	Load specific preset to the camera.
gbconfig –camera-mirror	Turn on/off the camera's mirroring.
gbconfig -s camera-mirror	Get the camera's mirroring status.
gbconfig –camera-power freq	Set powerline frequency.
gbconfig -s camera-power freq	Get powerline frequency.
gbconfig –camera-geteptz	Get eptz information.
gbconfig –hdcpc-enable hdmi	Set HDCP on/off for HDMI Out
gbconfig -s hdcpc-enable	Get HDCP status for HDMI out
gbconfig –cec-enable	Set CEC enable/disable.
gbconfig -s cec-enable	Get CEC status.
gbconfig –cec-cmd hdmi	Configure CEC commands for controlling display on/off.
gbconfig -s cec-cmd	Get CEC commands for controlling display on/off.
gbcontrol –send-cmd hdmi	Send CEC commands for controlling display on/off.
gbconfig –mic-mute	Set microphone mute on/off.
gbconfig -s mic-mute	Get microphone mute on/off status.
gbconfig –volume	Set audio volume.
gbconfig -s volume	Get audio volume.
gbconfig –autovolume	Adjust audio volume (increase/decrease).

## gbcontrol Commands

Command	Description
gbcontrol –send-cmd hdmi	To send CEC command to the display immediately.

## Command Sets

### gbconfig Commands

#### Camera:

## gbconfig –camera-mode

<b>Command</b>	gbconfig –camera-mode {normal   auto framing   speaker tracking   presentertracking}
<b>Response</b>	The camera will change to the specified tracking mode.
<b>Description</b>	<p>Set the camera's tracking mode from the following:</p> <ul style="list-style-type: none"><li>• normal: Users need to adjust the camera to the appropriate angle manually.</li><li>• autoframing: The camera automatically tracks the people based on face recognition.</li><li>• speaker tracking: The camera automatically tracks the speaker based on speech recognition.</li><li>• presentertracking: The camera automatically tracks the presenter always.</li></ul>

### Example:

To set the tracking mode to auto-framing:

### Command:

gbconfig –camera-mode autoframing

### Response:

The camera tracking mode will be set to autoframing.

## gbconfig -s camera-mode

<b>Command</b>	gbconfig -s camera-mode
<b>Response</b>	{normal   autoframing   speakertracking   presentertracking}
<b>Description</b>	Get the camera's tracking mode.

### Example:

To get the camera's tracking mode:

- **Command:**

gbconfig -s camera-mode

- **Response:**

normal

This indicates that the tracking mode is set as “normal”.

## gbconfig –camera-zoom

<b>Command</b>	gbconfig –camera-zoom {[100, gbconfig -s camera-phymaxzoom]}
----------------	--

<b>Response</b>	The camera zoom will be changed.
<b>Description</b>	<p>Set the camera's zoom. The available value ranges from 100% 1x to the camera's maximum physical zoom.</p> <p>For example, if the camera's maximum physical zoom is 500, the available range of the zoom is [100, 500]. 1x to 5x</p>

**Example:**

To set the camera zoom as 100:

- **Command:**

gbconfig –camera-zoom 100

- **Response:**

The camera zoom will be set to 1x.

**gbconfig -s camera-zoom**

<b>Command</b>	gbconfig -s camera-zoom
<b>Response</b>	xxx
<b>Description</b>	Get the camera's zoom.

**Example:**

To get the camera zoom:

- **Command:**

gbconfig -s camera-zoom

- **Response:**

100

The camera zoom is 1x.

**gbconfig –camera-savecoord**

<b>Command</b>	gbconfig –camera-savecoord {1/2}
<b>Response</b>	Current coordinates will be saved to preset 1 or 2.
<b>Description</b>	Save current coordinates to the specified preset. Presets 1 and 2 are offered.

**Example:**

To set current coordinates to preset 1:

- **Command:**

gbconfig –camera-savecoord 1

- **Response:**



The coordinates will be saved to preset 1.

### **gbconfig -s --camera-savecoord**

<b>Command</b>	gbconfig -s camera-savecoord {1   2}
<b>Response</b>	true/false
<b>Description</b>	<p>To get if the coordinates are saved to the specified preset.</p> <ul style="list-style-type: none"><li>• True: The coordinates have been saved to the specified preset already.</li><li>• False: The coordinates are not saved to the specified preset.</li></ul>

#### **Example:**

To get if current coordinates are saved to preset 1:

- **Command:**

gbconfig -s camera-savecoord 1

- **Response:**

false

The coordinates are not saved to preset 1.

### **gbconfig --camera-loadcoord**

<b>Command</b>	gbconfig --camera-loadcoord {1   2}
<b>Response</b>	The specified preset will be loaded into the camera.
<b>Description</b>	Load preset 1/2 to the camera.

#### **Example:**

To load preset 1 to the camera:

- **Command:**

gbconfig --camera-loadcoord 1

- **Response:**

Preset 1 will be loaded to the camera.

### **gbconfig --camera-mirror**

<b>Command</b>	gbconfig –camera-mirror {n   y}
<b>Response</b>	The camera mirroring function will be turned on or off.
<b>Description</b>	<p>To turn on or off the camera's mirroring function.</p> <ul style="list-style-type: none"> <li>• n: Mirroring off.</li> <li>• y: Mirroring on.</li> </ul>

**Example:**

To turn on mirroring:

- **Command:**

gbconfig –camera-mirror y

- **Response:**

The camera mirroring function will be turned on.

**gbconfig -s camera-mirror**

<b>Command</b>	gbconfig -s camera-mirror
<b>Response</b>	n/y
<b>Description</b>	<p>To get the mirroring status.</p> <ul style="list-style-type: none"> <li>• n: Mirroring off.</li> <li>• y: Mirroring on.</li> </ul>

**Example:**

To get the mirroring status:

- **Command:**

gbconfig -s camera-mirror

- **Response:**

y

The camera mirroring function is turned on.

**gbconfig –camera-powerfreq**

<b>Command</b>	<code>gbconfig –camera-powerfreq {50 / 60}</code>
<b>Response</b>	The frequency will be changed to <i>50/60</i> .
<b>Description</b>	<p>To change the powerline frequency to prevent flicker in the video.</p> <ul style="list-style-type: none"> <li>• 50: Change the frequency to 50Hz.</li> <li>• 60: Change the frequency to 60Hz.</li> </ul>

**Example:**

To change the powerline frequency to 60Hz:

- **Command:**

`gbconfig –camera-powerfreq 60`

- **Response:**

The powerline frequency will be changed to 60Hz.

**gbconfig –s camera-powerfreq**

<b>Command</b>	<code>gbconfig –s camera-powerfreq</code>
<b>Response</b>	n/50/60
<b>Description</b>	<p>Get the powerline frequency.</p> <ul style="list-style-type: none"> <li>• 50: Change the frequency to 50Hz.</li> <li>• 60: Change the frequency to 60Hz.</li> </ul>

**Example:**

To get the powerline frequency:

- **Command:**

`gbconfig –s camera-powerfreq`

- **Response:**

60

The anti-flicker function is 60Hz.

**Video:**

**gbconfig –hdcp-enable**

<b>Command</b>	<code>gbconfig -hdcpc-enable hdmi { n   auto   hdcpc14   hdcpc22 }</code>
<b>Response</b>	The HDCP of HDMI Out will be enabled or disabled.
<b>Description</b>	<p>Configure HDCP capability for HDMI Out.</p> <ul style="list-style-type: none"> <li>• <code>n</code>: Turn off HDCP.</li> <li>• <code>auto</code>: HDCP will be turned on/off automatically based on the actual situation. e.g. when “<code>auto</code>” is set, if both the source and HDMI display support HDCP 2.2, the HDMI output signal will be HDCP 2.2 encrypted; if the source doesn’t support HDCP, the HDCP of HDMI output signal will be off.</li> <li>• <code>hdcpc14</code>: The HDCP of HDMI Out will be set as 1.4.</li> <li>• <code>hdcpc22</code>: The HDCP of HDMI Out will be set as 2.2.</li> </ul>

**Example:**

To set the HDCP of HDMI out as 2.2:

- **Command:**

`gbconfig -hdcpc-enable hdmi hdcpc22`

- **Response:**

The HDCP of HDMI out is set as 2.2.

**gbconfig -s hdcpc-enable**

<b>Command</b>	<code>gbconfig -s hdcpc-enable</code>
<b>Response</b>	<code>n/auto/hdcpc14/hdcpc22</code>
<b>Description</b>	Get the HDCP status of HDMI Out.

**Example:**

To get the HDCP status of HDMI out:

- **Command:**

`gbconfig -s hdcpc-enable`

- **Response:**

`n`

The HDCP of HDMI out is turned off.

**gbconfig -cec-enable**

<b>Command</b>	<code>gbconfig –cec-enable {n / y}</code>
<b>Response</b>	The CEC will be turned on or off.
<b>Description</b>	Set the CEC on/off. n: Turn off CEC. y: Turn on CEC.

**Example:**

To turn on CEC:

- **Command:**  
`gbconfig –cec-enable y`
- **Response:**  
CEC will be turned on.

**gbconfig -s cec-enable**

<b>Command</b>	<code>gbconfig -s cec-enable</code>
<b>Response</b>	n/y
<b>Description</b>	Get CEC status. n: CEC is off. y: CEC is on.  Note: Once CEC is off, the command “GB control –sink power” will be unavailable, and the switching between normal working and standby for VB10 will be invalid as well.

**Example:**

To get CEC status:

- **Command:**  
`gbconfig -s cec-enable`
- **Response:**  
y

CEC is turned on.

**gbcontrol –sinkpower**

<b>Command</b>	<code>gbcontrol –sinkpower {on   off}</code>
<b>Response</b>	CEC command for controlling display on/off will be sent from HDMI Out to connected display.
<b>Description</b>	To send CEC command for controlling display on or off. On: Send CEC command for controlling the display. Off: Send CEC command for controlling display off.

**Example:**

To send CEC command for controlling display on:

- **Command:**

`gbcontrol –sinkpower on`

- **Response:**

The CEC command to power on the CEC-enabled display will be sent from HDMI out.

**gbconfig –cec-cmd hdmi**

<b>Command</b>	<code>gbconfig –cec-cmd hdmi {on   off} {CmdStr}</code>
<b>Response</b>	CEC commands for controlling display on/off will be configured and saved on the
	device.
<b>Description</b>	To configure and save CEC commands for controlling display on or off on the device. On: Configure CEC command for controlling display on. Off: Configure CEC command for controlling display off.  CmdStr: CEC command in string or hex format. For example, the CEC command to power on display may be “40 04”.

**Example:**

To configure and save CEC command “40 04” for powering on display on the device:

- **Command:**

`gbconfig –cec-cmd hdmi on 4004`

- **Response:**

The CEC command to power on CEC-enabled display “40 04” will be saved on the device.

**gbconfig -s cec-cmd**

<b>Command</b>	gbconfig -s cec-cmd
<b>Response</b>	<i>HDMI ON: xxxx</i> <i>HDMI OFF: xxxx</i>
<b>Description</b>	Get CEC commands for controlling display on and off. Y on: Configure CEC command for controlling display on. Y Off: Configure CEC command for controlling display off. Y CmdStr: CEC command in string or hex format. For example, the CEC command to power on display may be “40 04”.

**Example:**

To get CEC commands for controlling display on and off:

- **Command:**

gbconfig -s -cec-cmd

- **Response:**

- HDMI ON: 4004
- HDMI OFF: ff36

The CEC command to power on the CEC-enabled display: is “40 04”; the command to power off the display: is “ff 36”.

**gbcontrol –send-cmd hdmi**

<b>Command</b>	gbcontrol –send-cmd hdmi {CmdStr}
<b>Response</b>	The CEC command {CmdStr} will be sent to the display immediately for testing.
<b>Description</b>	To send CEC command {CmdStr} to the display immediately. Note: This command will not be saved on the device.

**Example:**

To send CEC commands “44 04” to the display:

- **Command:**

gbcontrol –send-cmd hdmi 4004

- **Response:**

The CEC command “40 04” will be sent to the display immediately.

**gbconfig –mice-enable**

<b>Command</b>	gbconfig –mice-enable {n  y}
<b>Response</b>	Miracast over Infrastructure feature enabled or disabled
<b>Description</b>	n, disabled. y, enabled.

**Example:**

To set Miracast over Infrastructure as enabled:

- **Command:**  
gbconfig –mice-enable y
- **Response:**  
Miracast over the Infrastructure feature will be enabled.

**gbconfig -s mice-enable**

<b>Command</b>	gbconfig -s mice-enable
<b>Response</b>	n/y
<b>Description</b>	n, disabled. y, enabled.

**Example:**

To get Miracast over Infrastructure status:

- **Command:**  
gbconfig -s mice-enable
- **Response:**  
n

The Miracast over Infrastructure is disabled.

**gbconfig –display-mode**

<b>Command</b>	gbconfig –display-mode {single   dual}
<b>Response</b>	Set Display layout to single, split
<b>Description</b>	Single and Split are auto layouts,

**Example:**

To Set the Display layout to manual mode:

- **Command:**  
gbconfig –display-mode single



- **Response:**

The display layout mode turned to single.

### **gbconfig -s display-mode**

<b>Command</b>	gbconfig -s display-mode
<b>Response</b>	single/ dual/manual
<b>Description</b>	single, auto single layout dual, auto split layout manual, for manual layout setting

#### **Example:**

To get display mode status:

- **Command:**

gbconfig -s display-mode

- **Response:**

single

The display mode is single.

#### **Audio:**

### **gbconfig –mic-mute**

<b>Command</b>	gbconfig –mic-mute { <i>n</i> / <i>y</i> }
<b>Response</b>	All microphones will be set as mute on/off.
<b>Description</b>	Set all microphones (including VB10's and expansible microphones) mute on/off.  n: mute off.  y: mute on.

#### **Example:**

To set all microphone mute off:

- **Command:**

gbconfig –mic-mute n

- **Response:**

The microphones will be set as mute.

### **gbconfig -s mic-mute**

<b>Command</b>	gbconfig -s mic-mute
<b>Response</b>	n/y
<b>Description</b>	To get all microphones (including VB10's and expansible microphones) mute on/off status.  n: mute off.  y: mute on.

**Example:**

To get all microphone mute on/off status:

- **Command:**  
gbconfig -s mic-mute
- **Response:**  
n

The microphones are muted off.

**gbconfig –auto volume**

<b>Command</b>	gbconfig –autovolume { <i>inc</i> / <i>dec</i> }
<b>Response</b>	The volume gain will be increased or decreased by 2 per step.
<b>Description</b>	To increase or decrease the volume.  inc: To increase the gain of the output volume by 2 per step.  dec: To decrease the gain of the output volume by 2 per step.

**Example:**

To increase volume:

- **Command:**  
gbconfig –autovolume inc
- **Response:**  
The volume will be increased by 2 per step.

**gbconfig –volume**

<b>Command</b>	gbconfig –volume {0,12,24,36,50,62,74,88,100}
<b>Response</b>	Set the volume values.
<b>Description</b>	Volume can only be configured to specified values

**Example:**

To set the volume:

- **Command:**

gbconfig --volume 50

- **Response:**

The volume will be set to 50.

**gbconfig -s volume**

<b>Command</b>	gbconfig -s volume
<b>Response</b>	0~100
<b>Description</b>	Get the volume values.

**Example:**

To get the volume:

- **Command:**

gbconfig -s volume

- **Response:**

50

The volume is 50.

**gbconfig --speaker-mute**

<b>Command</b>	gbconfig --speaker-mute {n   y}
<b>Response</b>	Set the speaker mute/unmute.
<b>Description</b>	n, unmute y, mute

**Example:**

To set the speaker mute:

- **Command:**

gbconfig --speaker-mute y

- **Response:**

The speaker will be mute.

**gbconfig -s speaker-mute**

<b>Command</b>	gbconfig -s speaker-mute
<b>Response</b>	n/y
<b>Description</b>	Get the speaker status.

**Example:**

To get the mute status of the speaker:

- **Command:**

gbconfig -s speaker-mute

- **Response:**

n

The speaker is unmute.

**gbconfig –vb10-mic-disable**

<b>Command</b>	gbconfig –vb10-mic-disable {n  y}
<b>Response</b>	Set the internal mic of vb10 enabled/disabled.
<b>Description</b>	n, enabled y, disabled

**Example:**

To set the mic disabled:

- **Command:**

gbconfig –vb10-mic-disable y

- **Response:**

The mic of vb10 will be disabled.

**gbconfig -s vb10-mic-disable**

<b>Command</b>	gbconfig -s vb10-mic-disable
<b>Response</b>	n/y
<b>Description</b>	Get the mic status.

**Example:**

To get the mic status:

- **Command:**

gbconfig -s vb10-mic-disable

- **Response:**

n

The mic is enabled.

### System:

#### gbcontrol –device-info

<b>Command</b>	gbcontrol –device-info
<b>Response</b>	Get the firmware version
<b>Description</b>	The firmware version for VB10

### Example:

To get the firmware version:

- **Command:**  
gbcontrol –device-info
- **Response:**  
V1.3.10

#### gbconfig –hibernate

<b>Command</b>	gbconfig –hibernate {n  y}
<b>Response</b>	Set the device to sleep.
<b>Description</b>	n, wake up y, sleep

### Example:

To set the device sleep:

- **Command:**  
gbconfig –hibernate y
- **Response:**  
The device will sleep.

#### gbconfig -s hibernate

<b>Command</b>	gbconfig -s hibernate
<b>Response</b>	n/y
<b>Description</b>	Get the sleep status.

### Example:

To get the sleep status of the device:

- **Command:**  
gbconfig -s hibernate
- **Response:**  
n

The device is working.

#### **gbconfig --show-guide**

<b>Command</b>	gbconfig --show-guide {n  y}
<b>Response</b>	Show the guide screen manual.
<b>Description</b>	n, close y, show

#### **Example:**

To show the guide screen:

- **Command:**  
gbconfig --show-guide y
- **Response:**  
The guide screen will show.

#### **gbconfig -s show-guide**

<b>Command</b>	gbconfig -s show-guide
<b>Response</b>	n/y
<b>Description</b>	Get the guide screen status. Note that only the status of the manually set guide screen is fed back.


#### **Example:**

To get the guide screen status of the device:

- **Command:**  
gbconfig -s hibernate
- **Response:**  
n

The guide screen is not shown.

## **Documents / Resources**

  <b>iCam VB80</b> Platform API Commands Manual  <small>Document Version 1.0.0</small>  <small>www.infobit.com    info@infobit.com</small>	<a href="#">infobit iCam VB80 Platform API Commands</a> [pdf] Instructions VB80, iCam VB80 Platform API Commands, iCam VB80, Platform API Commands, Platform Co mmands, API Commands, iCAM VB80 Commands, Commands
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References

- [infobit AV- 4K Matrix Switchers, Wireless Presentation, Active Optical Cable and Conference Camera-Meeting Room Solutions](#)
- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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