

## [FAQ]

# How do I manage and calculate the bandwidth usage of GV-IP Cameras?

Article ID: GV15-13-01-31-I

Release Date: 01/31/2013

### Applied to

GV-IP Cameras

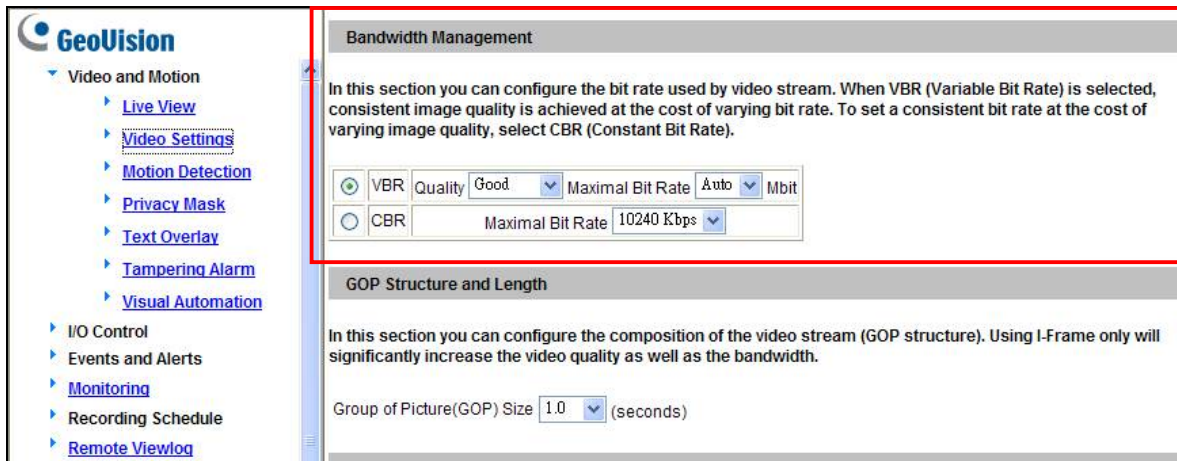
### Question

How do I manage and calculate the bandwidth usage of GV-IP Cameras?

### Answer

The amount of bandwidth usage can be controlled when using H.264 or MPEG4 and thus can be calculated. Follow the steps below for bandwidth management.

1. Log in to the Web interface of the GV-IP camera.
2. In the left menu, click **Video Settings**.



The screenshot shows the GeoVision web interface. On the left is a navigation menu with the following items: Video and Motion (expanded), Live View, Video Settings (highlighted), Motion Detection, Privacy Mask, Text Overlay, Tampering Alarm, Visual Automation, I/O Control, Events and Alerts, Monitoring, Recording Schedule, and Remote Viewlog. The main content area, outlined in red, is titled "Bandwidth Management". It contains the following text: "In this section you can configure the bit rate used by video stream. When VBR (Variable Bit Rate) is selected, consistent image quality is achieved at the cost of varying bit rate. To set a consistent bit rate at the cost of varying image quality, select CBR (Constant Bit Rate)." Below this text are two radio button options: "VBR" (selected) with a "Quality" dropdown set to "Good" and a "Maximal Bit Rate" dropdown set to "Auto" (Mbit), and "CBR" with a "Maximal Bit Rate" dropdown set to "10240 Kbps". Below the red-bordered area is a section titled "GOP Structure and Length" with the text: "In this section you can configure the composition of the video stream (GOP structure). Using I-Frame only will significantly increase the video quality as well as the bandwidth." Below this text is a "Group of Picture(GOP) Size" dropdown set to "1.0" (seconds).

3. Under **Bandwidth Management**, select **VBR** (Variable Bit Rate) or **CBR** (Constant Bit Rate). When set as VBR, the bandwidth usage cannot be calculated, since the bit rate varies. When set as CBR, the bandwidth usage can be calculated using the Maximal Bit Rate you set.

For details, see *Video Settings*, Chapter 16.1.1, *GV-IPCAMH264 User's Manual*.

You can also check the **GV-IP Camera Bandwidth and Recording Size Calculator** on our website for a more exact bandwidth usage calculation.

<http://classic.geovision.com.tw/english/Bandwidth.asp>