

# How to Configure Grandstream Cameras on VMS Zoneminder

This manual describes the necessary graphical way to add cameras to the Grandstream VMS Zoneminder configurations using transmission or primary stream in H.264 format primary / secondary stream in MJPEG format.

For steps VMS installation in Ubuntu Linux Zoneminder follow this link

<http://www.zoneminder.com/wiki/index.php/Ubuntu>

After following the steps in the link above and have achieved the successful installation of VMS will proceed with the x264 library installation for Linux.

Using Ubuntu,

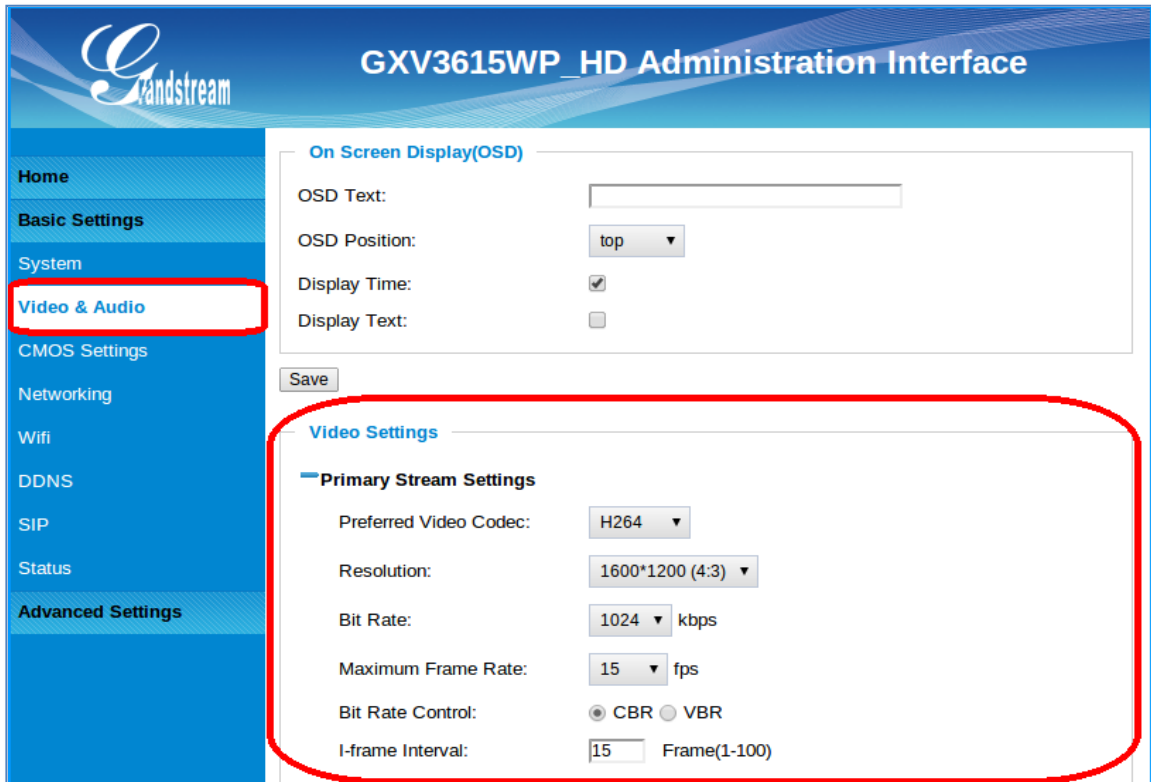
```
#Apt-get install x264
```

If you already have installed the VMS Zoneminder in other Linux distributions, you can install the library using the following command:

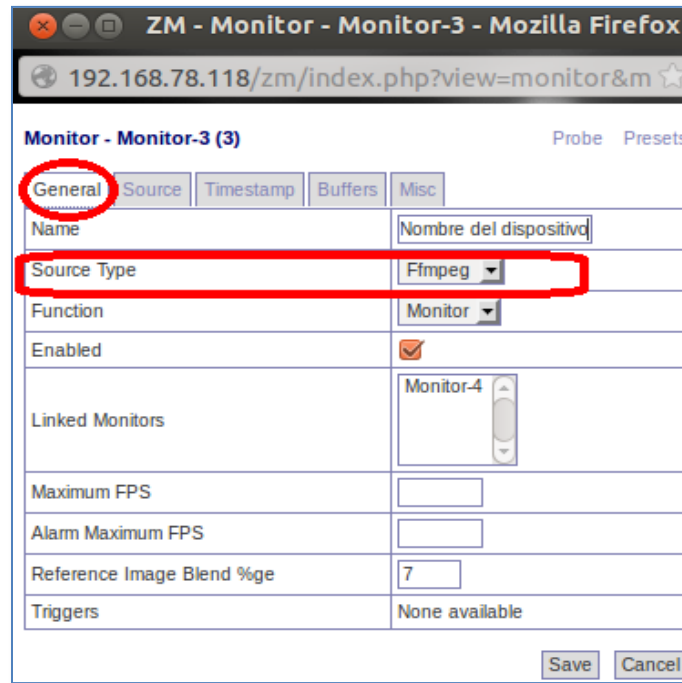
```
#yum install x264
```

# Add Grandstream cameras using H.264 Primary Stream

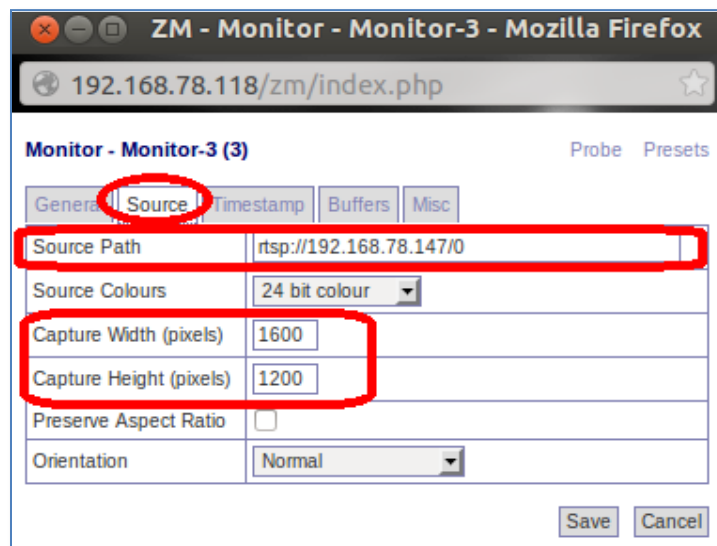
1. Configure the primary stream of the Grandstream camera



- Make the following settings in the VMS Zoneminder
  1. Click on [Add New Monitor](#)
  2. General-->> Source Type: FFmpeg

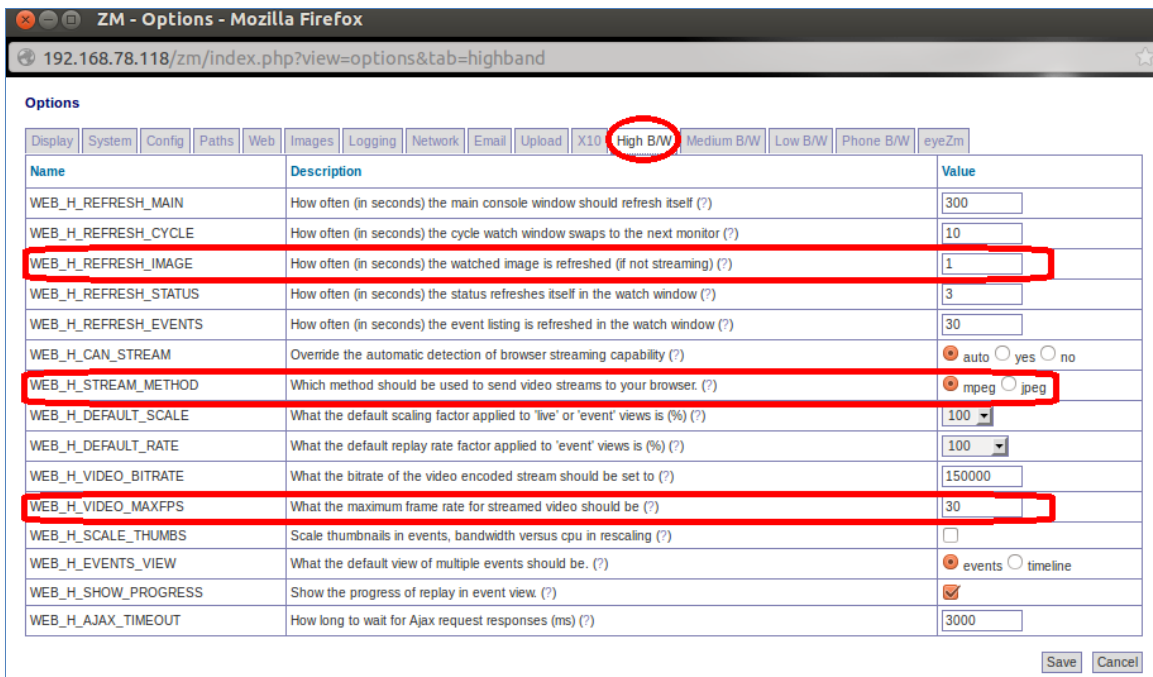


3. Source -->> Source Path: rtsp://ip-of-the-camera/0 (value /0 should be placed to tell the VMS Zoneminder you should use the primary stream)
4. Source -->> set the pixels that were configured in the GUI camera



5. Optional configurations for maximum performance of VMS Zoneminder

- Click on [Options / Log](#)
- Click on the "High B / W"
- WEB\_H\_REFRESH\_IMAGE=1
- WEB\_H\_VIDEO\_MAXFPS=30
- WEB\_H\_STREAM\_METHOD=mpeg



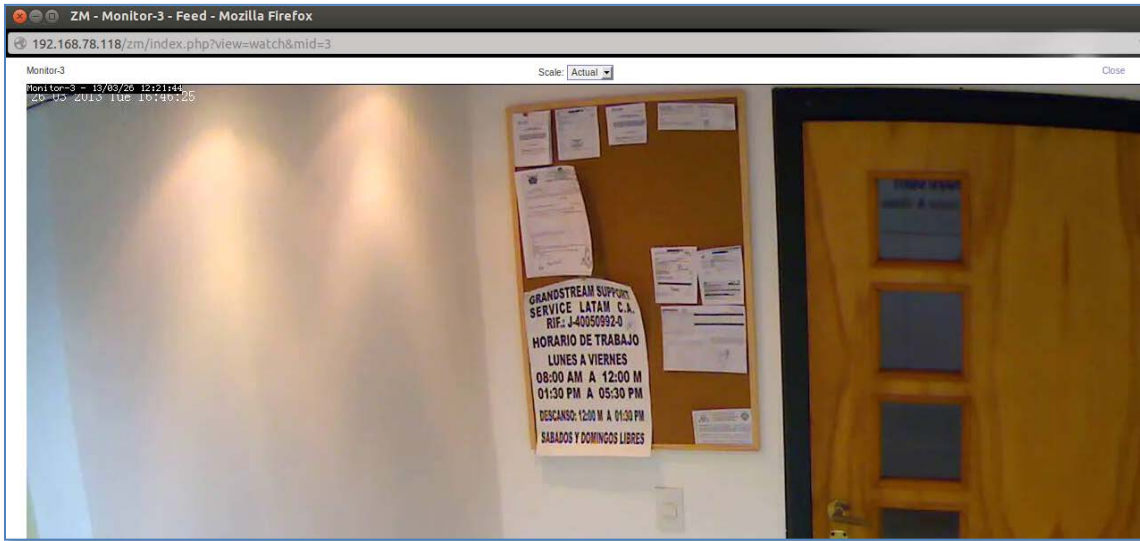
Options

Display System Config Paths Web Images Logging Network Email Upload X10 **High B/W** Medium B/W Low B/W Phone B/W eyeZm

Name	Description	Value
WEB_H_REFRESH_MAIN	How often (in seconds) the main console window should refresh itself (?)	300
WEB_H_REFRESH_CYCLE	How often (in seconds) the cycle watch window swaps to the next monitor (?)	10
WEB_H_REFRESH_IMAGE	How often (in seconds) the watched image is refreshed (if not streaming) (?)	1
WEB_H_REFRESH_STATUS	How often (in seconds) the status refreshes itself in the watch window (?)	3
WEB_H_REFRESH_EVENTS	How often (in seconds) the event listing is refreshed in the watch window (?)	30
WEB_H_CAN_STREAM	Override the automatic detection of browser streaming capability (?)	<input checked="" type="radio"/> auto <input type="radio"/> yes <input type="radio"/> no
WEB_H_STREAM_METHOD	Which method should be used to send video streams to your browser. (?)	<input checked="" type="radio"/> mpeg <input type="radio"/> jpeg
WEB_H_DEFAULT_SCALE	What the default scaling factor applied to 'live' or 'event' views is (%) (?)	100
WEB_H_DEFAULT_RATE	What the default replay rate factor applied to 'event' views is (%) (?)	100
WEB_H_VIDEO_BITRATE	What the bitrate of the video encoded stream should be set to (?)	150000
WEB_H_VIDEO_MAXFPS	What the maximum frame rate for streamed video should be (?)	30
WEB_H_SCALE_THUMBS	Scale thumbnails in events, bandwidth versus cpu in rescaling (?)	<input type="checkbox"/>
WEB_H_EVENTS_VIEW	What the default view of multiple events should be. (?)	<input checked="" type="radio"/> events <input type="radio"/> timeline
WEB_H_SHOW_PROGRESS	Show the progress of replay in event view. (?)	<input checked="" type="checkbox"/>
WEB_H_AJAX_TIMEOUT	How long to wait for Ajax request responses (ms) (?)	3000

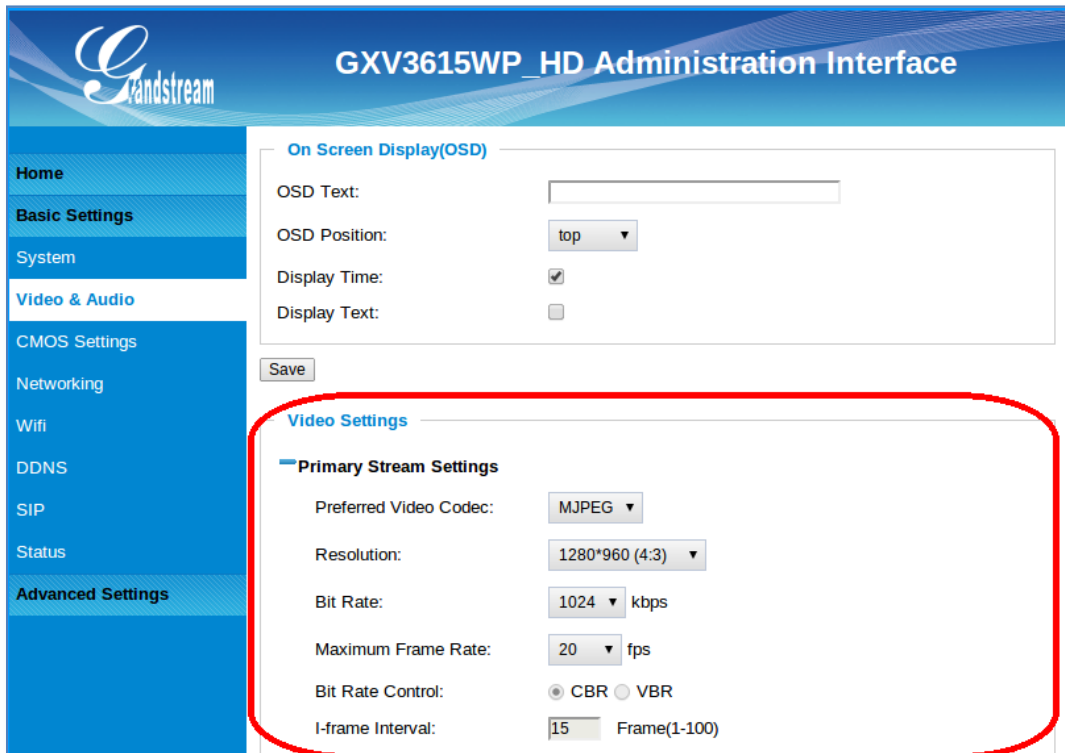
Save Cancel

After completing these steps users will be able to view the cameras on the Grandstream VMS Zoneminder with primary H.264 stream

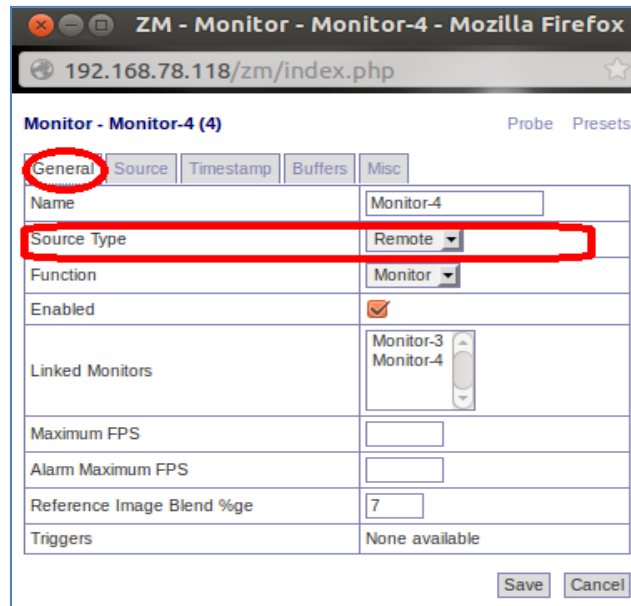


## Add cameras using Grandstream resolution MJPEG stream primary / secondary

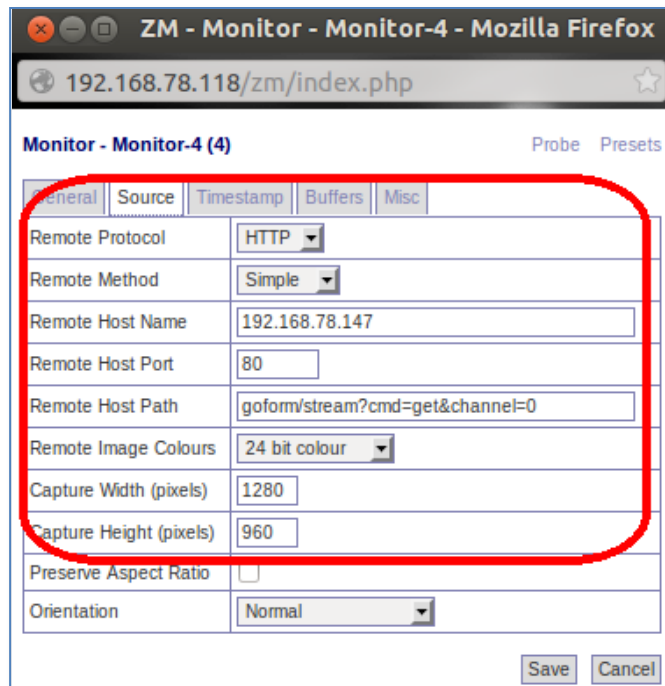
1. Configure the primary /secondary stream with MJPEG (For this guide we have configured in the primary stream)



- Make the following configurations in the Zoneminder VMS GUI
  1. Click on [Add New Monitor](#)
  2. General -->> Source Type: REMOTE



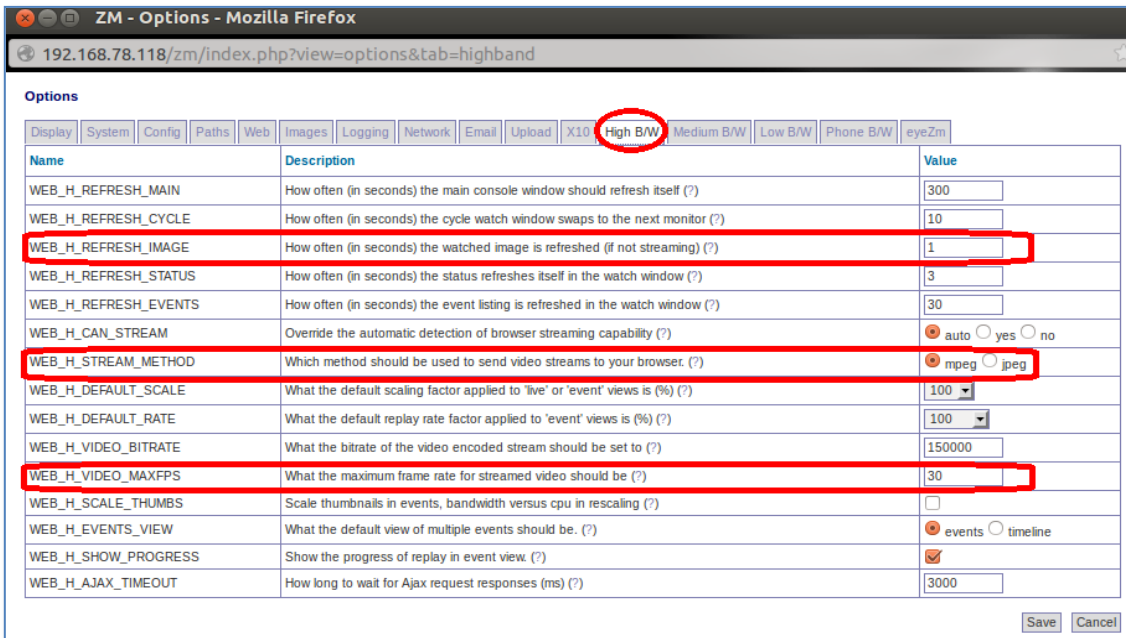
3. General -->> Source Type: REMOTE
4. Source -->>Remote Protocol: HTTP
5. Source -->>Remote Method: Simple
6. Source -->>Remote Host Name: IP of the camera
7. Source -->>Remote Host Port: 80
8. Source -->>Remote Host Path: goform/stream?cmd=get&channel=0 (The 0 means to work with the primary stream to work with the secondary stream, the 0 must be replaced by the number 4; example: Remote Host Path:goform/stream?cmd=get&channel=4 )



## 2. Optional configurations for maximum performance of VMS Zoneminder

- Click on [Options / Log](#)
- Click on High B/W
- WEB\_H\_REFRESH\_IMAGE=1
- WEB\_H\_VIDEO\_MAXFPS=30
- WEB\_H\_STREAM\_METHOD=mpeg





After completing these steps users will be able to view the cameras on the Grandstream VMS Zoneminder with primary or secondary stream in MPEG

