

TRAINING FOR WEB CASTING FOR

Elections to Urban Local Bodies-2020

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About Web Casting

- Live Web casting involves upload of video and audio from Laptop connected with web camera to a central server in cloud using Internet
- Viewers can then view the uploaded video and audio for live monitoring

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System Flow - Polling

Web casting using Webcam and Laptop with Streaming Application



Polling Station

Live Streaming
Internet



Monitoring Center – RO, DEO and CEO Office's



Components of Web casting

LAPTOP



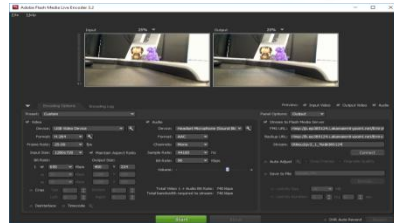
WEBCAM



3G Dongle



Adobe Live Media Encoder Software



XML Configuration File



Operator registration to get xml file

- A operator registration page will be available for operators to register their name, number and which booth they will be going to webcast.
- In this registration page operator can download their XML file (XML file is a configuration file which specifies booth level identification for each operator), Adobe Media Live Encoder 3.2 and Training Manual

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Operator Login Page for Registration & Download of XML

Username : SO
Password : ELECTION
www.telanganawc.com

Welcome

Login

User Name

Password

Login



Operator Login Page for Registration & Download of XML

Select District->Assembly(Name of the Municipality)-
>Booth(Polling station)-Enter Operator Name & Operator Mobile

Logout

District

Assembly

Booth

Operator Name

Operator Mobile No

Download XML

[Download Live Encoder](#)

[Download PPT Slide](#)

Software Download Link

**Training Manual
Download Link**



Installation of Adobe Flash Media Live Encoder 3.2

- All the antivirus should be uninstalled/removed before the installation
- Minimum 5 GB of space on Drive C: should be available
- Logitech USB Camera has to be connected before you run the installation
- Do not use Mini Laptop for Web Streaming



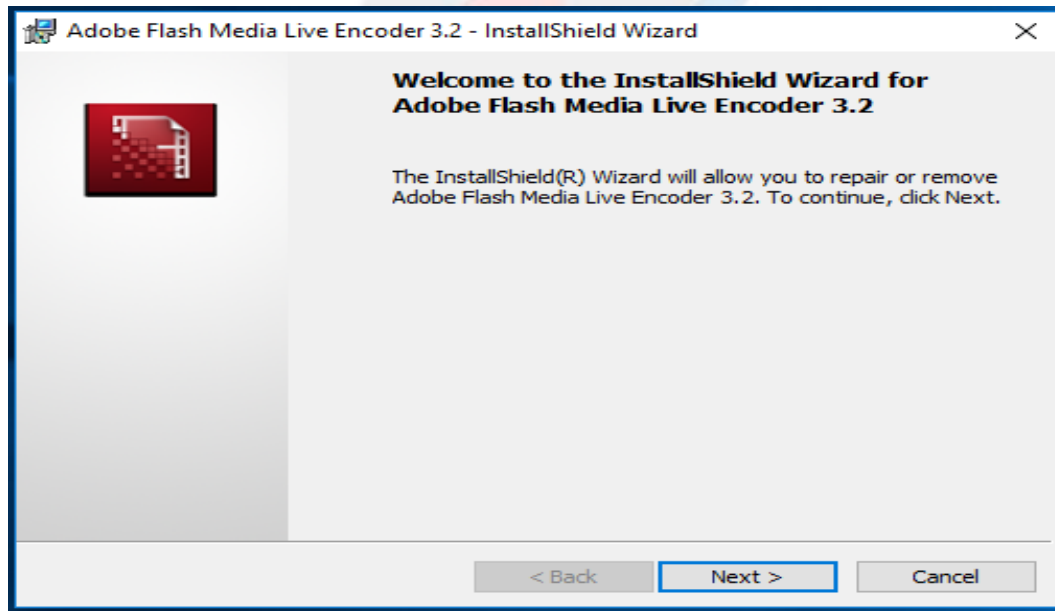
Installation of Adobe Flash Media Live Encoder 3.2

- Once you have downloaded Adobe Flash Media Live Encoder 3.2 Setup double click on the icon to run the setup file



Installation of Adobe Flash Media Live Encoder 3.2

You will see the below setup on your screen, click on the Next button till the installation is complete



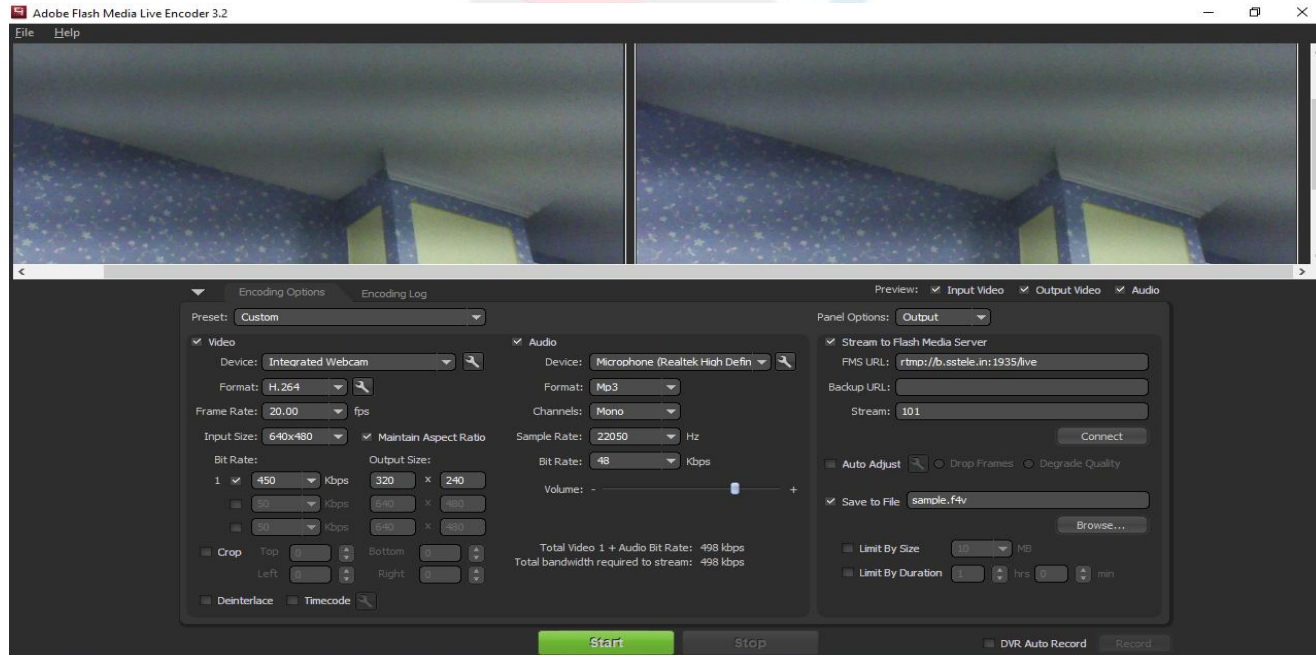
Installation of Adobe Flash Media Live Encoder 3.2

Once the setup is completed double click on the below icon to open Installation of **Adobe Flash Media Live Encoder 3.2** which will be available on your Desktop



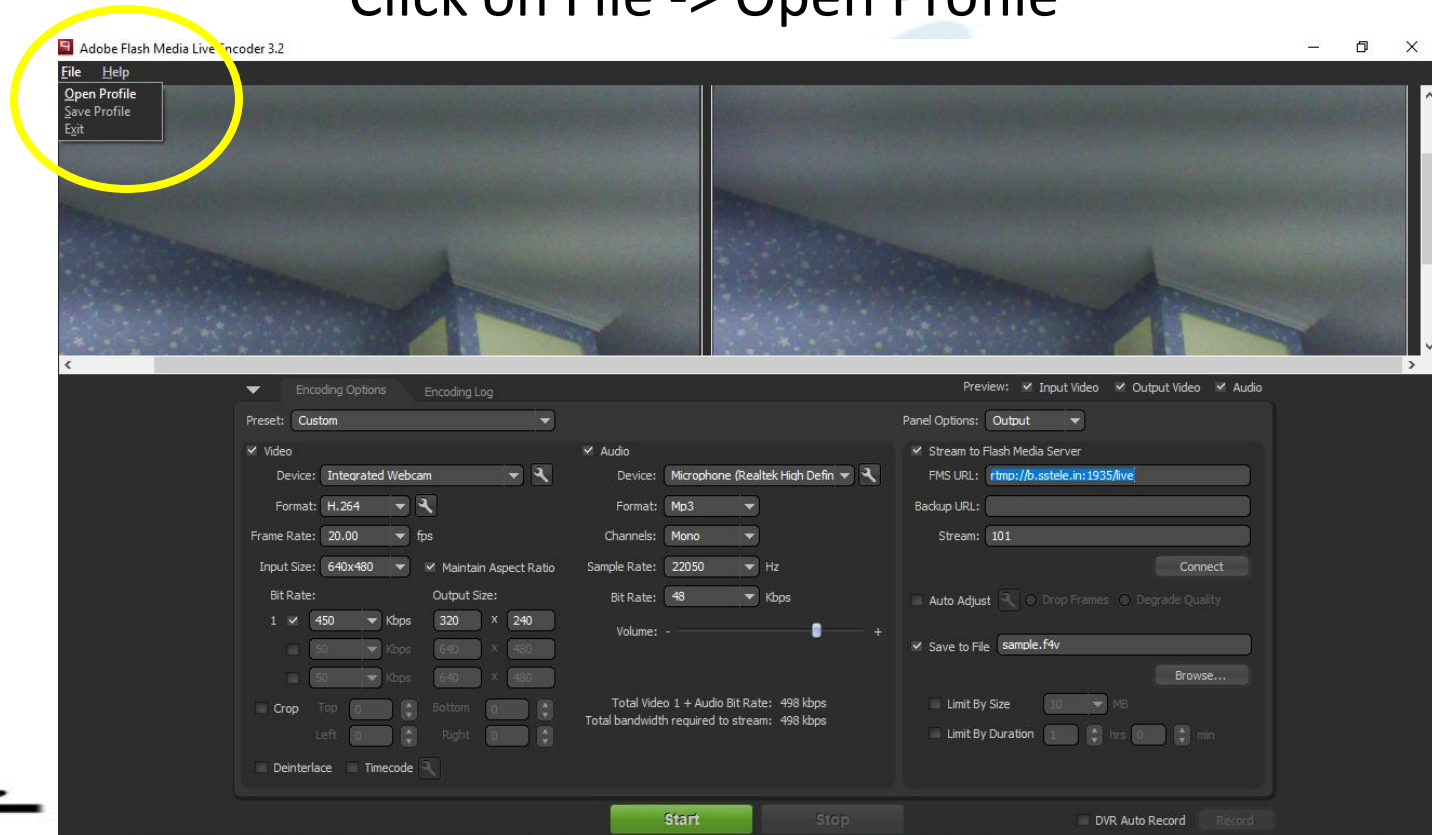
Installation of Adobe Flash Media Live Encoder 3.2

Adobe Flash Media Live Encoder 3.2 will open and will look like the below screen.



Installation of Adobe Flash Media Live Encoder 3.2

Click on File -> Open Profile



Adobe Flash Media Live Encoder 3.2

File Help
Open Profile
Save Profile
Exit

Encoding Options Encoding Log

Preset: Custom

Video
Device: Integrated Webcam
Format: H.264
Frame Rate: 20.00 fps
Input Size: 640x480
Maintain Aspect Ratio
Bit Rate: 450 Kbps
Output Size: 320 x 240
Crop: Top 0 Bottom 0 Left 0 Right 0
Deinterlace Timecode

Audio
Device: Microphone (Realtek High Defin
Format: Mp3
Channels: Mono
Sample Rate: 22050 Hz
Bit Rate: 48 Kbps
Volume: -

Panel Options: Output

Stream to Flash Media Server
FMS URL: <rtmp://b.sstele.in:1935/live>
Backup URL:
Stream: 101
Connect

Auto Adjust Drop Frames Degrade Quality

Save to File sample.f4v
Browse...

Limit By Size 10 MB
Limit By Duration 1 hrs 0 min

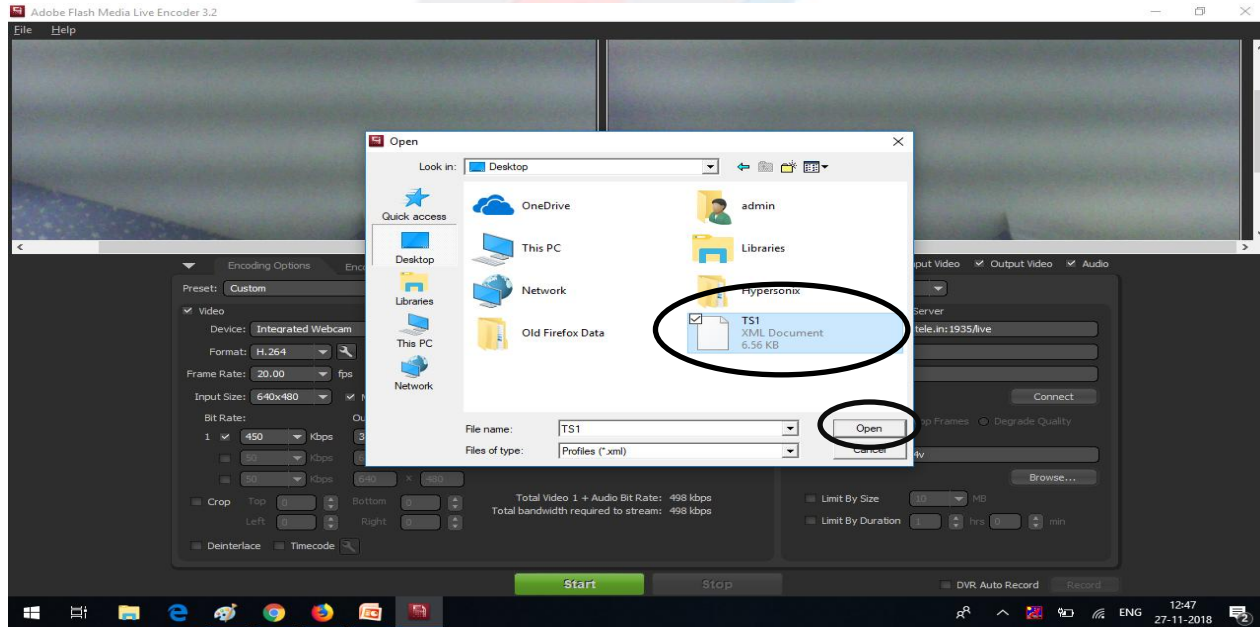
Total Video 1 + Audio Bit Rate: 498 kbps
Total bandwidth required to stream: 498 kbps

Start Stop DVR Auto Record Record



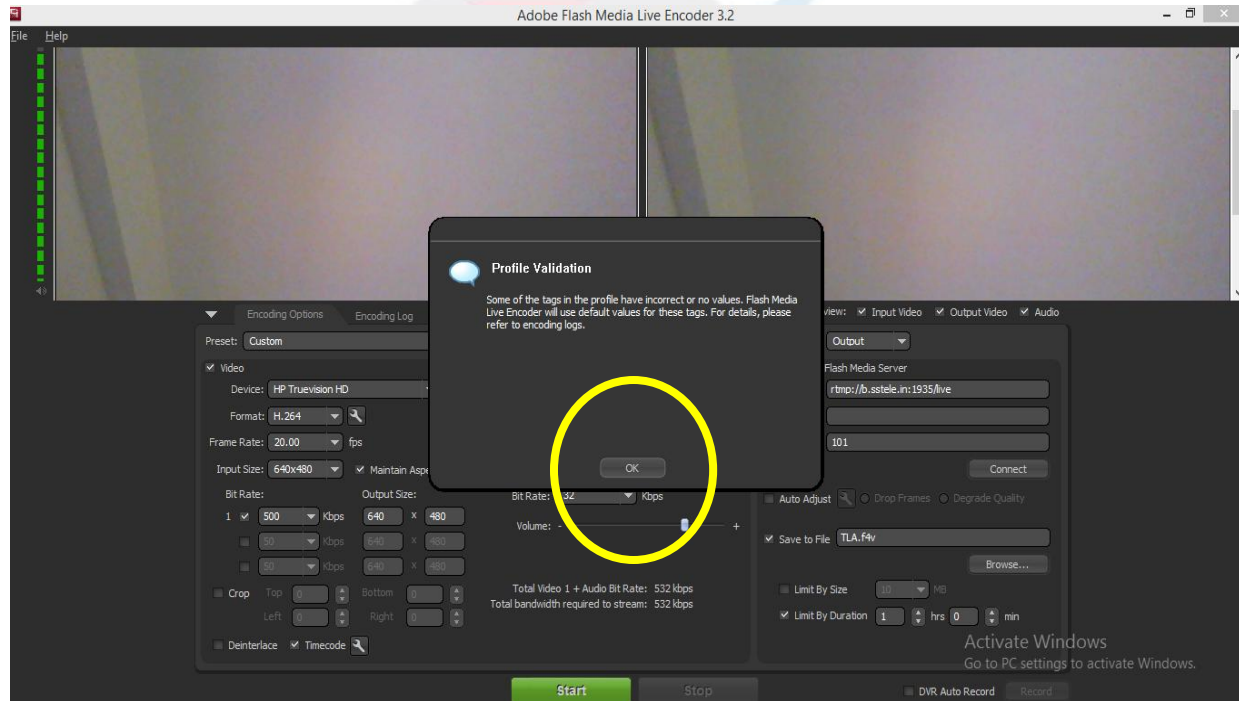
Installation of Adobe Flash Media Live Encoder 3.2

Click on the XML File & Open which correspond to your designated Polling Booth for which details will be provided



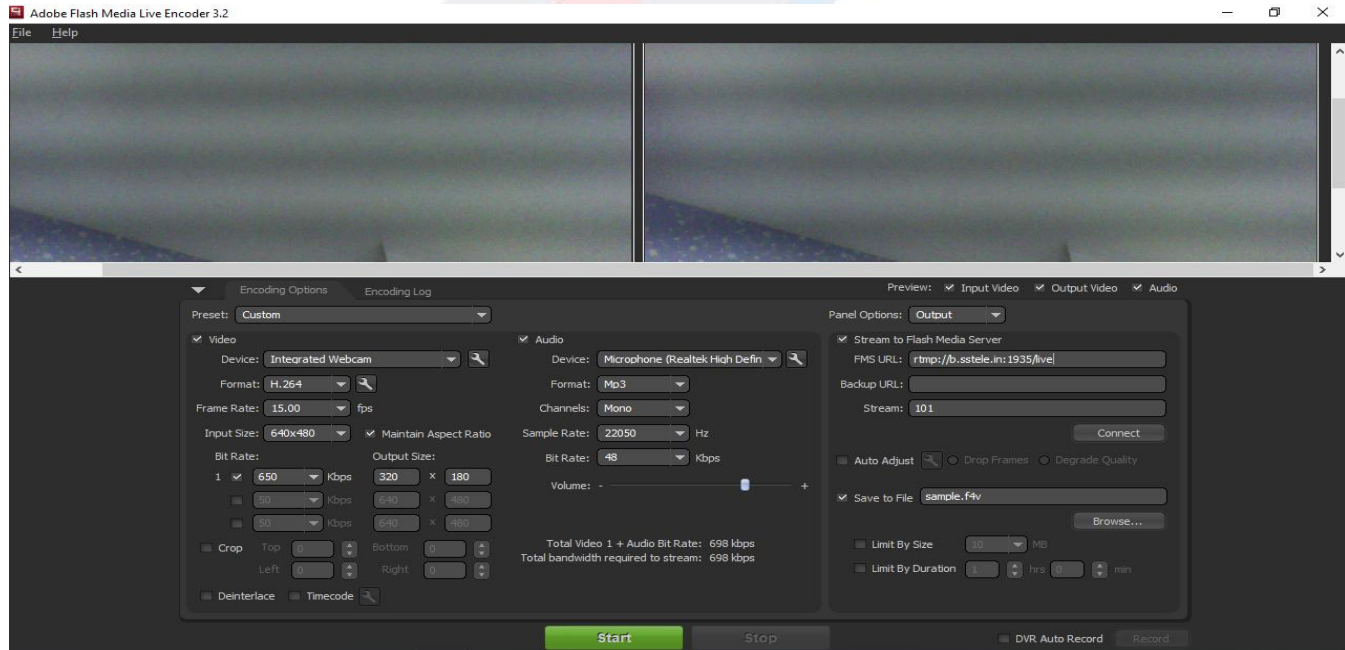
Installation of Adobe Flash Media Live Encoder 3.2

Once XML file is uploaded a pop up will be displayed just click on OK to continue



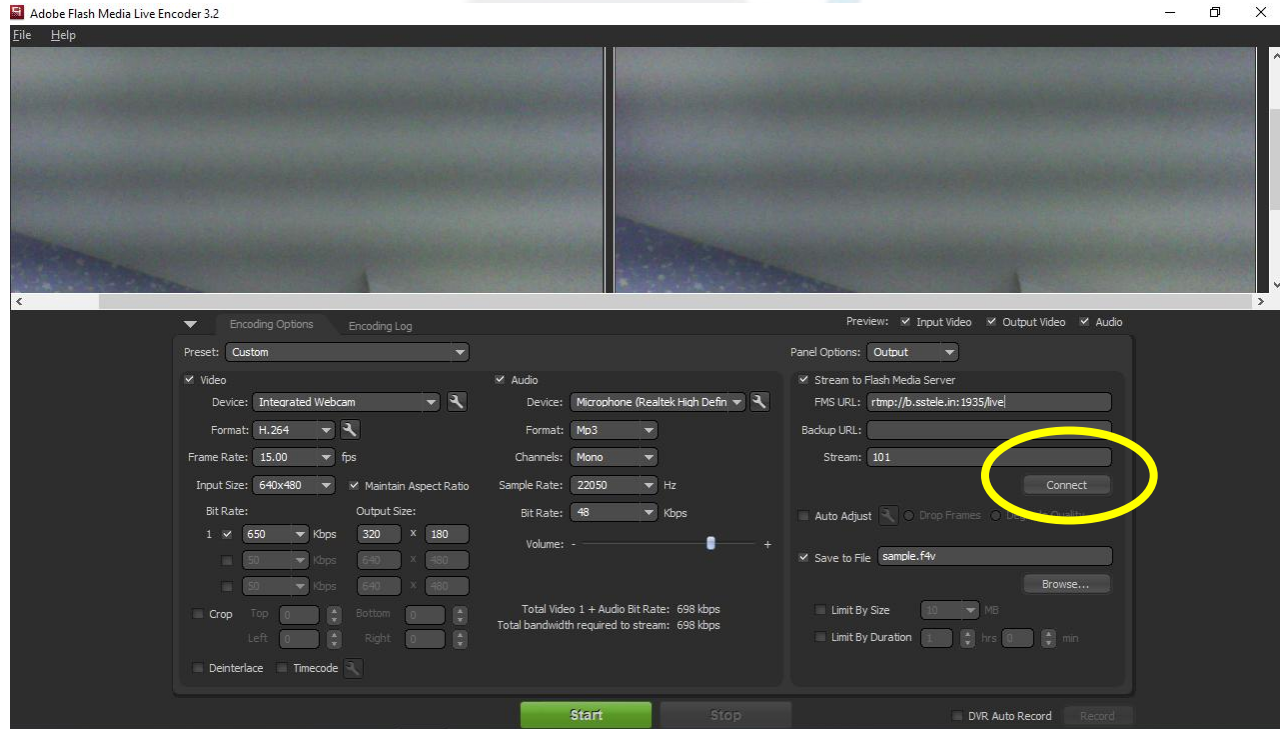
Installation of Adobe Flash Media Live Encoder 3.2

Once XML file is imported the below screen will be visible with configuration assigned as per your Polling Station



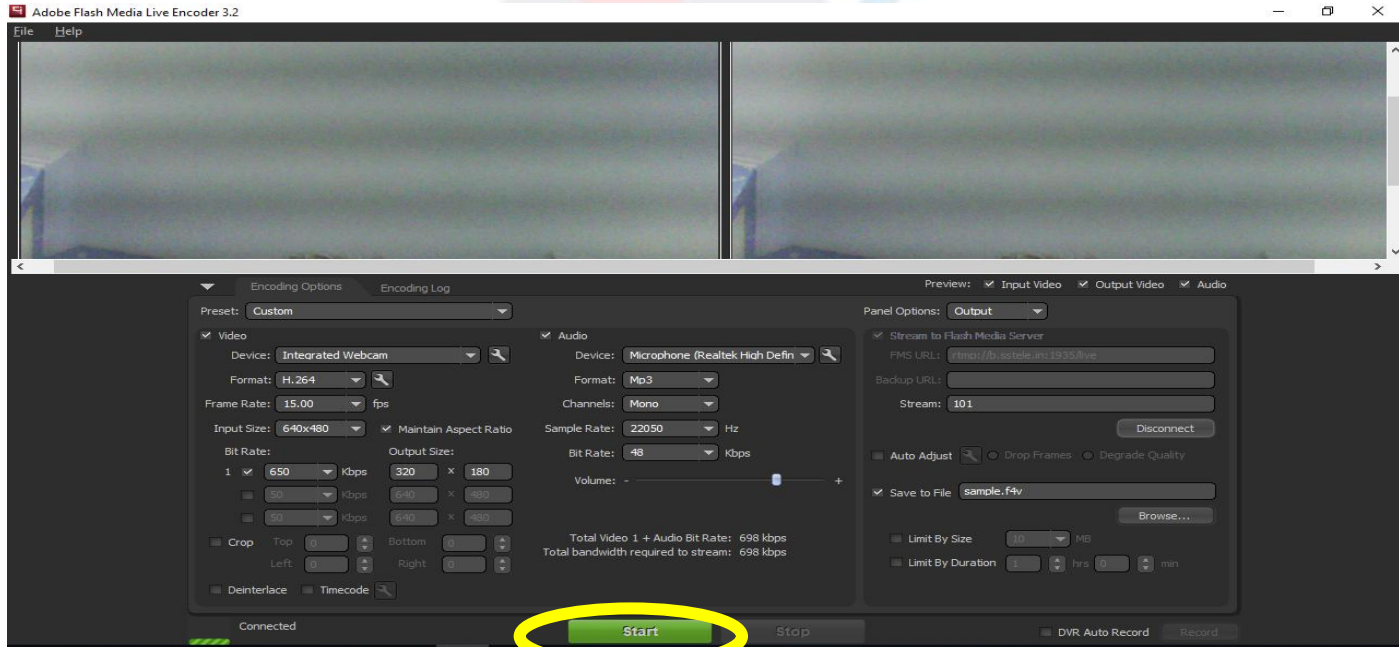
Installation of Adobe Flash Media Live Encoder 3.2

Click on Connect which will be the first step where Software will establish connection with Server. Once Its connected the Connect icon will change to disconnect



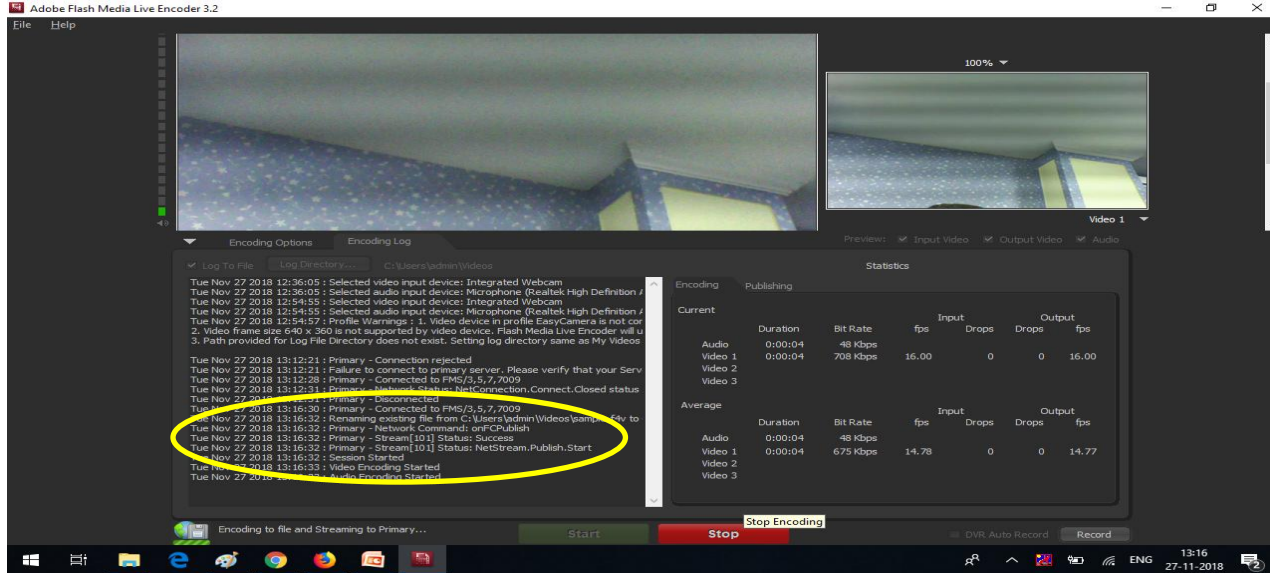
Installation of Adobe Flash Media Live Encoder 3.2

Once you are connected click on START (Green Button) to Stream



Installation of Adobe Flash Media Live Encoder 3.2

Once the stream starts the screen will look like below. This means the streaming is started



The screenshot displays the Adobe Flash Media Live Encoder 3.2 interface. The main window shows a live video stream of a room. Below the main preview, there is a smaller preview window labeled 'Video 1'. The interface is divided into several sections: 'Encoding Options', 'Encoding Log', 'Statistics', and a control bar at the bottom. The 'Encoding Log' section is highlighted with a yellow circle, showing the following messages:

```
Tue Nov 27 2018 12:36:05 : Selected video input device: Integrated Webcam  
Tue Nov 27 2018 12:36:05 : Selected audio input device: Microphone (Realtek High Definition  
Tue Nov 27 2018 12:54:55 : Selected video input device: Integrated Webcam  
Tue Nov 27 2018 12:54:55 : Selected audio input device: Microphone (Realtek High Definition  
Tue Nov 27 2018 12:54:57 : Profile Warnings : 1. Video device in profile EasyCamera is not cor  
2. Video frame size 640 x 360 is not supported by video device, Flash Media Live Encoder will u  
3. Path provided for Log File Directory does not exist. Setting log directory same as My Video  
Tue Nov 27 2018 13:12:24 : Primary - Connection rejected  
Tue Nov 27 2018 13:12:21 : Failure to connect to primary server, Please verify that your Serv  
Tue Nov 27 2018 13:12:28 : Primary - Connected to FMS/3,5,7,7009  
Tue Nov 27 2018 13:12:33 : Primary - Network Status: NetConnection.Connect.Closed status  
Tue Nov 27 2018 13:12:34 : Primary - Disconnected  
Tue Nov 27 2018 13:16:30 : Primary - Connected to FMS/3,5,7,7009  
Tue Nov 27 2018 13:16:32 : Removing existing file from c:\Users\admin\Videos\am... fty to  
Tue Nov 27 2018 13:16:32 : Primary - Network Command: onFCPublish  
Tue Nov 27 2018 13:16:32 : Primary - Stream[10] Status: Success  
Tue Nov 27 2018 13:16:32 : Primary - Stream[10] Status: NetStream.Publish_Start  
Tue Nov 27 2018 13:16:32 : Session Started  
Tue Nov 27 2018 13:16:32 : Video Encoding Started  
Tue Nov 27 2018 13:16:32 : Work Encoding Started
```

The 'Statistics' panel shows the following data:

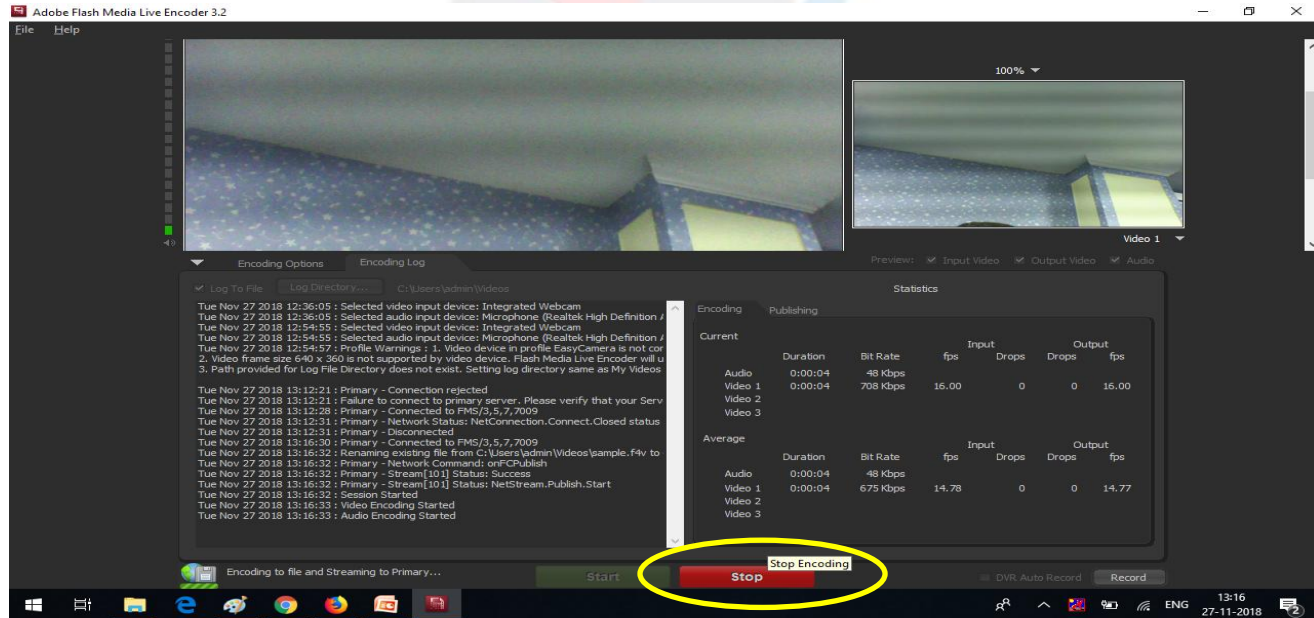
| Encoding | | Publishing | | | | |
|----------|----------|------------|-------|-------------|--------------|-------|
| Current | Duration | Bit Rate | fps | Input Drops | Output Drops | fps |
| Audio | 0:00:04 | 48 Kbps | | | | |
| Video 1 | 0:00:04 | 708 Kbps | 16.00 | 0 | 0 | 16.00 |
| Video 2 | | | | | | |
| Video 3 | | | | | | |
| Average | | Bit Rate | fps | Input Drops | Output Drops | fps |
| Audio | 0:00:04 | 48 Kbps | | | | |
| Video 1 | 0:00:04 | 675 Kbps | 14.78 | 0 | 0 | 14.77 |
| Video 2 | | | | | | |
| Video 3 | | | | | | |

The control bar at the bottom includes buttons for 'Start', 'Stop', 'Stop Encoding', 'DVR Auto Record', and 'Record'. The system tray shows the time as 13:16 on 27-11-2018.



Installation of Adobe Flash Media Live Encoder 3.2

When the Polling process is completed Click on STOP
(Red Button)



The screenshot displays the Adobe Flash Media Live Encoder 3.2 interface. The main window is divided into several sections: a large video preview area at the top, an 'Encoding Options' section below it, and a 'Statistics' panel on the right. The 'Encoding Log' at the bottom shows a series of messages indicating the successful start of the encoding process. A red button labeled 'Stop Encoding' is highlighted with a yellow circle at the bottom center of the interface.

Encoding Log:

```
Tue Nov 27 2018 12:36:05 : Selected video input device: Integrated Webcam
Tue Nov 27 2018 12:36:05 : Selected audio input device: Microphone (Realtek High Definition
Tue Nov 27 2018 12:36:05 : Selected video input device: Integrated Webcam
Tue Nov 27 2018 12:36:05 : Selected audio input device: Microphone (Realtek High Definition
Tue Nov 27 2018 12:54:55 : Profile Warnings : 1. Video device in profile EasyCamera is not cor
2. Video frame size 640 x 360 is not supported by video device. Flash Media Live Encoder will u
3. Path provided for Log File Directory does not exist. Setting log directory same as My Videos
Tue Nov 27 2018 13:12:21 : Primary - Connection rejected
Tue Nov 27 2018 13:12:21 : Failure to connect to primary server. Please verify that your Serv
Tue Nov 27 2018 13:12:28 : Primary - Connected to FMS/3,5,7,7009
Tue Nov 27 2018 13:12:31 : Primary - Network Status: NetConnection.Connect.Closed status
Tue Nov 27 2018 13:12:31 : Primary - Disconnected
Tue Nov 27 2018 13:16:30 : Primary - Connected to FMS/3,5,7,7009
Tue Nov 27 2018 13:16:32 : Renaming existing file from C:\Users\admin\Videos\sample.f4v to
Tue Nov 27 2018 13:16:32 : Primary - Network Command: onFCPublish
Tue Nov 27 2018 13:16:32 : Primary - Stream[101] Status: Success
Tue Nov 27 2018 13:16:32 : Primary - Stream[101] Status: NetStream.Publish.Start
Tue Nov 27 2018 13:16:32 : Session Started
Tue Nov 27 2018 13:16:33 : Video Encoding Started
Tue Nov 27 2018 13:16:33 : Audio Encoding Started
```

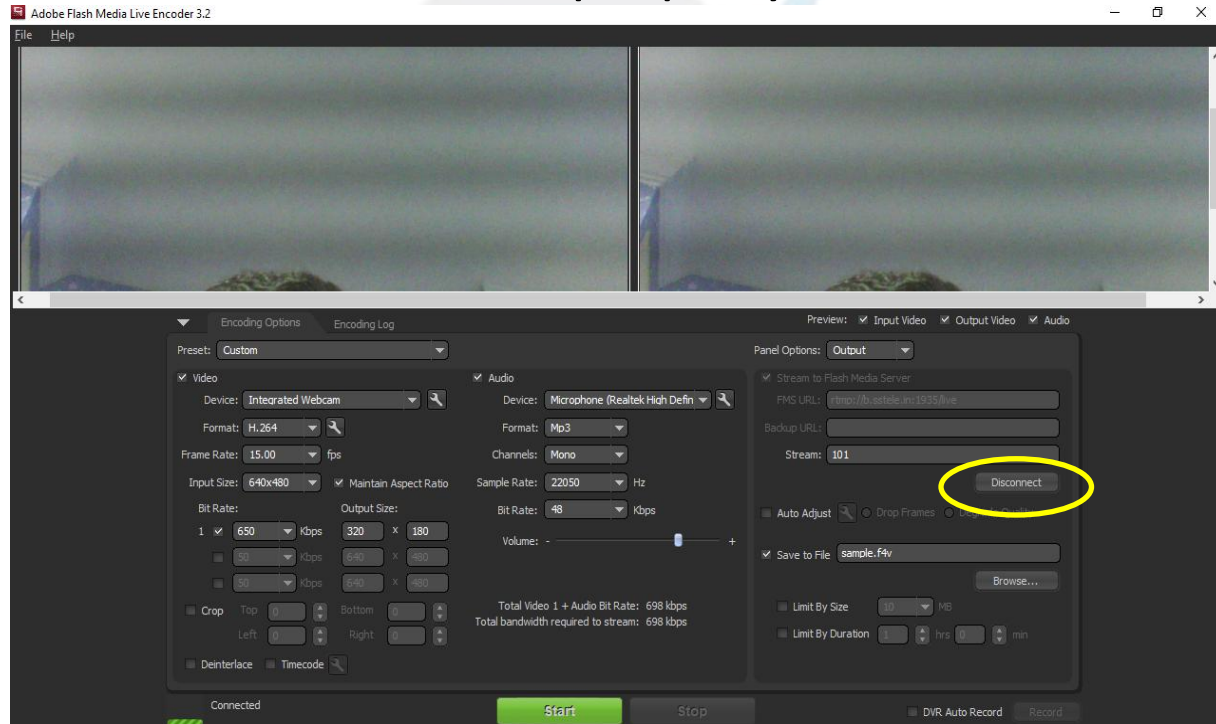
Statistics:

| Encoding | Duration | Bit Rate | fps | Input Drops | Output Drops | Output fps |
|----------|----------|----------|-------|-------------|--------------|------------|
| Current | | | | | | |
| Audio | 0:00:04 | 48 Kbps | | | | |
| Video 1 | 0:00:04 | 708 Kbps | 16.00 | 0 | 0 | 16.00 |
| Video 2 | | | | | | |
| Video 3 | | | | | | |
| Average | | | | | | |
| Audio | 0:00:04 | 48 Kbps | | | | |
| Video 1 | 0:00:04 | 675 Kbps | 14.78 | 0 | 0 | 14.77 |
| Video 2 | | | | | | |
| Video 3 | | | | | | |



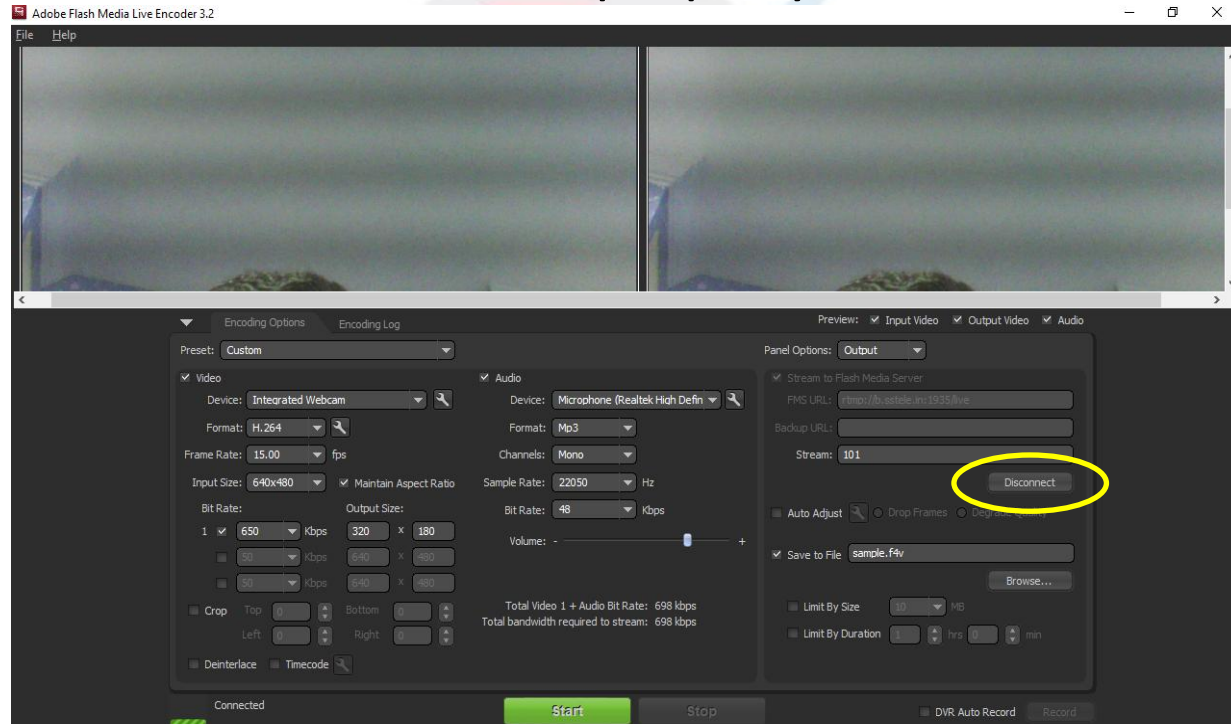
Installation of Adobe Flash Media Live Encoder 3.2

After Stopping the Stream click on disconnect so all the files can be saved properly.



Installation of Adobe Flash Media Live Encoder 3.2

After Stopping the Stream click on disconnect so all the files can be saved properly.



Web Camera Positioning

W No: 1 - PS No.: 1



B SUJATHA

W No: 1 - PS No.: 2



V SHRAVAN,

W No: 1 - PS No.: 5



N ALEKHYA -

W No: 2 - PS No.: 5



B PREMNATH - 8886783686

W No: 2 - PS No.: 5



JOHN PHILIP - 8099703954

W No: 50 - PS No.: 1



L SWETHA -



DO's

- Reach the Polling booth on time.
- Ensure antivirus and firewall is uninstalled
- Ensure your laptop is connected to the power and is fully charged
- Ensure the webcam is connected and working
- Ensure webcam is focused Correctly
- Ensure 3G/ Broadband Internet Connection is working
- Ensure you are always available before Laptop for monitoring



DON'Ts

- Don't Use other application in the laptop
- Don't focus your camera other than Polling event
- Don't stream the video in other places such as home etc...
- Don't use wrong XML number
- Don't share the recorded video with third person
- Don't use Internet or other application before or during polling
- Don't restart or shutdown Laptop during web streaming

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