

Lesson 08 Recap

Equipment needed for the broadcast:

- 1 Laptop/desktop on which OBS is installed
- 2 Video equipment
- 3 Sound equipment
- 4 Internet connection
- 5 Social media account

1 Laptop/desktop on which OBS is installed

Broadcasting a theatre play involves showcasing the action of the stage from different camera angles. So as to switch from one angle to another, the video team use a video mixer. In our case we are using a free open source software called OBS. Like a video mixer, this software enable us to switch from one camera to another directly from the software installed on our laptop/desktop.

Please make sure to have the following equipment listed onto next page to ensure a stable broadcast:

1 Laptop/desktop on which OBS is installed

WINDOWS laptop/desktop

Minimum:

Requires a 64-bit processor and operating system

OS: Windows 10 20H2 (64 bit)

Processor: Intel i5 2500K, AMD Ryzen 1300X

Memory: 4 GB RAM

Graphics: GeForce GTX 900 Series, Radeon RX 400 Series, Intel HD Graphics 500

DirectX: Version 11

Storage: 600 MB available space

Additional Notes: Hardware encoders recommended

1 Laptop/desktop on which OBS is installed

WINDOWS laptop/desktop

Recommended:

Requires a 64-bit processor and operating system

OS: Windows 11 (64 bit)

Processor: Intel i7 8700K, AMD Ryzen 1600X

Memory: 8 GB RAM

Graphics: GeForce 10 Series, Radeon 5000 Series, Intel Xe

DirectX: Version 11

Network: Broadband Internet connection

Storage: 600 MB available space

1 Laptop/desktop on which OBS is installed

mac OS laptop/desktop

Minimum:

OS: 11 or higher

Processor: Intel quad-core recommended

Memory: 4 GB RAM

Graphics: Intel or AMD

Storage: 800 MB available space

Recommended:

OS: 12.5 or higher

Processor: Intel quad-core or Apple Silicon (M1/M2)

Memory: 8 GB RAM

Graphics: Intel, AMD, or Apple

Network: Broadband Internet connection

Storage: 800 MB available space

2 Video equipment

- A** Cameras or webcams (ensure batteries are fully charged and devices are connected to AC power to avoid loss of signal)
- b** Tripods or gimbals for steady framing (note that you can control the gimbal with a mobile phone to enable the operator to pan/tilt remotely)
- c** Capture cards to enables the acquisition of the feed of the camera on the laptop in real time
- d** SDI or HDMI cables to connect to camera to the capture card
- e** An external monitor to be able to 'monitor' all your sources

2 Video equipment

A B Cameras and their accessories

Ideally you need at least 3 cameras to be able to switch from different types of framings:

- Wide shots
- Medium shots
- Close ups

These cameras should be on tripods for the cameramen to achieve a steady framing.

2 Video equipment

- e An external monitor / Talk back system

You can connect a TV, a monitor with the HDMI output of your laptop.

OBS will enable you to preview your different sources. Each of your cameras will appear making it easy to choose which angle you want to display during the broadcast.

Ideally you communicate with the camera operators with a talk back system to guide them and ask them which type of framing you need at anytime.

2 Video equipment

A B Cameras and their accessories

Ideally you need at least 3 cameras to be able to switch from different types of framings:

- Wide shots
- Medium shots
- Close ups

These cameras should be on tripods for the cameramen to achieve a steady framing.

3 Sound equipment

A Wireless mics onto your actors (receivers on the cameras)

b Ambiance mic on one of the camera to be mixed softly with the other sources to pick the feedback of the audience

c Alternatively you can use Overhead mics suspended above the actors pointing down

d A Sound mixer can receiving all audio sources and send the output mix to the laptop for OBS to receive it.

4 Internet connection

Upload speed is one of the most important settings for live streaming. The faster your upload speed, the smoother your live streams will be. The general recommendation for the upload speed is around 5 Mbps.

To ensure a good broadcast with OBS, you need a stable internet connection with an upload speed of at least 3 Mbps for HD or Full HD streams. For 4K resolution, you'll need a minimum of 20 Mbps or higher

Make sure to use a wired connection as opposed to using wifi so as to keep a constant upload speed.

5 Social media account activated on the platform you want to broadcast from

