

# Record with OBS Studio

## Settings

### Gear

- Android TV: [Nokia Streaming Box 8010](#) or [Xiaomi Mi Box S 4K](#) Android streaming and video player
- BDP: [OPPO UDP-203](#) 4K Ultra HD Bluray Disc Player (player with HDMI passthrough and analog surround 7.1 audio outputs)
- Video Capture: [Blackmagic Intensity Pro](#) 4K PCI-e capture card
- USB Audio: [ESI U86XT](#) USB audio interface
- Isolator: [Conext Link AD104 RCA Stereo 2 Channel Ground Loop Isolator Signal Noise Filter Suppressor](#) (avoid ground loop)
- NoHDCP: [UGREEN 40281 HDMI Audio Extractor](#) (disable HDCP)

With this setup you can record video and 5.1 or 7.1 audio at the same time.

Connection diagram:

```

flowchart LR
    LR[Android TV] -- HDMI --> NoHDCP[NoHDCP]
    NoHDCP -- HDMI --> BDP[BDP]
    BDP -- "FL/FR C/SW SL/SR (6ch RCA)" --> Isolator[Isolator]
    BDP -- HDMI --> Capture[Capture]
    Capture -- "PCI-e or USB" --> PC[PC]
    Isolator -- "FL/FR C/SW SL/SR (6ch RCA)" --> USBaudio[USBaudio]
    USBaudio -- USB --> PC
    PC -- "#software" --> PC
  
```

### Notes:

- The UDP needs to be set to *Source Direct* to pass through the video to the capture card.
- Instead of this UDP you can utilize any 5.1 pre-amplifier which supports an audio codec currently used by *Netflix*, *Disney+*, *Amazon Prime*, *HBO Go*, etc. If you use a pre-amplifier with variable output volume make sure you adjust the volume so you don't need to post-process amplification to it.
- While *Netflix* has a desktop client from which you could separately record 5.1 audio, other streaming clients on Windows do not have this feature.

### Software

- [OBS Studio](#) 27.2.4
- [HandBrake](#) 1.5.1 (GUI and CLI version)
- [SMPlayer](#) 22.2.0.10060

### Desktop Audio 5.1

- Video: none
- Audio: Windows 10 App

## FHD Surround 5.1 (Intensity Pro)

- Video: Mi Box S → 40281 (HDMI) → Intensity Pro (HDMI)
- Audio: Mi Box S → 40281 (SPDIF) → AVR-4308 (5.1 through Pre Out) to U86XT (Line IN 1-6)
- Make sure you connect the U86XT through a Ground Loop Isolator to the AVR to avoid ground loop issues while recording
- Set the AVR-4308 to volume -10 dB

## VHS Stereo (Intensity Pro)

- Video: HR-S6711EU (composite) → Intensity Pro (Y - green)
- Audio: HR-S6711EU (stereo) → Intensity Pro (RCA)
- Audio monitor: HR-S6711EU (stereo) → AVR-4308

## OBS Studio

### Settings

- Output
  - Hint:** Chose *Simple* or *Advanced*, not both, then save. *Simple* is good for lossless recording of both video and audio. *Advanced* is only necessary for some special use cases.
  - Output Mode: Simple
    - Recording Path
    - Recording Quality: Lossless Quality
  - Output Mode: Advanced
    - Type: Custom Output (FFmpeg)
    - File path or URL
    - Container Format: matroska
    - Audio Bitrate: 256 Kbps
    - Audio Track: 1
    - Audio Encoder: pcm\_s16le
- Audio
  - Sample Rate: 48 kHz
  - Channels: 5.1 or Stereo
- Video
  - Base (Canvas) Resolution: 1920×1080
  - Output (Scaled) Resolution: 1920×1080
  - Downscale Filter: [no downscaling required]
  - Common FPS Values: 60

### Properties Intensity Pro 4K

- Video Connection: HDMI
- Audio Connection: Analog RCA (we do not record the audio stream)

## Properties ESI U86 XT

- Device: U86 Multichannel 8 (ESI Audio Device (WDM) - U86)
- Advanced Audio Properties - Sync Offset: -120ms
- Advanced Audio Properties - Tracks: 1

## Filters

- Limiter: Threshold -1.00 dB, Release 60 ms

## Deinterlacing

- Disable

## How Tos

- [Prevent Clipping](#)
- [Profiles and Scene Collections](#)
- [How to transfer your VHS to Computer](#)
- [How to record high quality Wav audio in OBS ?](#)
- [Correct settings for capturing VHS](#)
- [5 Best Ways to Deinterlace Video in 2022](#)
- [How To Properly De interlace Videos To 50 or 60 Fps Progressive](#)

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