

Taking Charge of your Performance Career: Performing Online

Optimising your Audio

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KEY TAKEAWAYS

- Concentrate on getting your source audio as good as possible
- Export audio .mp3 @320kbps
- Check the capabilities of apps
- Use headphones AND meters
- Be careful of input levels
- Compare levels of your final files to similar music on iTunes or Spotify
- Test all final files and links on as many platforms and speakers as possible

Some major factors that will affect source audio quality

Venue/location

Compression/ file formats

LIVE STREAMING or PRE-RECORDING

Two Fundamental Methodologies

1. Capture audio & video together [one device] and stream 'live' or record [phone or computer]
2. Record audio & video simultaneously but to two devices, sync back together in software.

EQUIPMENT

SMART PHONES

! Limitations:

- Built in voice recording apps are not ideal. Download music recording app.

Apps:

- iPhone – Garageband.
- Android - Voice Recorder
- ! Video apps – Check availability of audio settings

MICROPHONES - some choices

- **Vocals:** Shure SM58, Shure Beta 57, Shure Beta 87C, Audio Technica AT4040 [€ 100–€400]
- **Acoustic instruments:** Shure SM 81 [€350]

- **Amps:** Shure SM58/57 [or Betas]
- **Percussion:** Audix & Sennheiser
- **Choirs:** – [Stereo pair required] - hanging mics
 - Audio Technica Pro45 Cardioid, Audio Technica U853 [wide cardioid pattern recommended] [ballpark €150 - €400 each]
 - Shure SM 81, Shure Beta 87C [C= cardioid essential]. Height on stands could be difficult

ADDITIONAL ITEMS

- **Pop shields**
- **DIs:** BSS/ RADIAL /ART [€50 - €150]
- **Headphones:** Sennheiser HD 25 Mk11 – Industry Standard [€ 150]
- **Cables & Accessories**
- **Mic stands /tripod for camera /phone**
- **! SD card for recorder** [Sandisk - format in recorder]
- **! Batteries** [new, alkaline, or use mains]

AUDIO SOFTWARE – some options

- **Audacity** – Mac & PC - free
- **Reaper** - Mac & PC
- **Logic** - Mac
- **Garageband** - Mac, IOS
- **ProTools** - Mac & PC

FILES & FORMATS

- **Audio:** Recording sample rate 44.1kHz @ 24 or 16Bit .Wav or .AIFF
 - **Export:** .mp3 , Bitrate 320kbps
- **! Audio & Video** – Recording sample rate 48kHz @ 24/16bit .Wav or AIFF
 - **Export:** .mp4

Create Free Test Accounts

- SoundCloud [audio]
- YouTube unlisted [video]
- Facebook test page [streaming]

LINKS

Audio Hardware Suppliers

Big Bear Sound [Dublin, local shop] <https://www.bigbearsound.com/>

Thomonn Online <https://www.thomann.de/ie/index.html>

Sound on Sound - Audio Equipment Reviews

<https://www.soundonsound.com/reviews>

GIK Acoustics - Acoustic panels

https://gikacoustics.eu/product-category/acoustic-panels-6/?gclid=Cj0KCQiAzzs-BRCCARIsANotFgPVjHH5_FiRPcAstS9eIerT9uSTUak92myZ0bqc3_0JdpVv6pJFTi4aAhFhEALw_wcB

Streaming -OBS <https://obsproject.com/>

OBS Beginners Guide [basic guide, how to check best settings for audio]

<https://www.youtube.com/watch?v=4fKTda87AH8>

Remote collaboration - Source Connect

<https://www.source-elements.com/products/source-connect/>