

Audio URLs

Training Audio

Each background audio given in Table 1 (apart from the last two) is mixed with all the UAV audios from the *UAV Only* column.

Table 1 Full Training Audio Dataset Creation

UAV Only	Background	Time Used (hr:min:sec)	Volume when mixed with UAV (dB)
http://dregon.inria.fr/datasets/	https://www.youtube.com/watch?v=gS_R8Ub9HuE&ab_channel=RelaxationWindows4KNature	00:00:00 to 00:44:10	-1
https://www.youtube.com/watch?v=VpqaMRfMLig&ab_channel=BrianFisher	https://www.youtube.com/watch?v=h3EdeGNKus&ab_channel=NomadicAmbience	04:00:00 to 04:44:10	-1
https://www.youtube.com/watch?v=Ei0i1wfKB_I&ab_channel=PaulDonovan	https://www.youtube.com/watch?v=yuSMhRKAkG8&ab_channel=AeroTendencias	ALL	-4
https://www.youtube.com/watch?v=V5DYre_EZKU&ab_channel=TheIntrovertSpeaks	https://www.youtube.com/watch?v=Jbz_9dj-11A&ab_channel=TexasHighDef	ALL	-4
https://www.youtube.com/watch?v=Ej8JOkQWqKo&ab_channel=SoundEffectsFactory	https://www.youtube.com/watch?v=gVKEM4K8J8A&t=1301s&ab_channel=StardustVibes-RelaxingSounds	00:00:00 to 00:44:10	-1
https://www.youtube.com/watch?v=KIEttZXeibk&ab_channel=WetalkUAV%5BAlexAssenmacher%5D	https://www.youtube.com/watch?v=sT5f1jBJHng&t=1942s&ab_channel=RelaxingSoundsOfNature	00:00:00 to 00:44:10	-1
https://www.youtube.com/watch?v=BzRtdj1XG6c&ab_channel=DylanJohn	https://www.youtube.com/watch?v=B1T06UhcX0Q&ab_channel=LoungeVFilms-RelaxingMusicandNatureSounds	00:00:00 to 00:44:10	0
https://www.youtube.com/watch?v=naYRgeFryCY&ab_channel=MorgentauSoundEffects	https://www.youtube.com/watch?v=2NPtEKzZeVU	00:00:00 to 00:20:00	Not used in mix
https://www.youtube.com/watch?v=V4kz-rwfcPo&ab_channel=FlightFun	https://www.youtube.com/watch?v=iO-mUnSjMKM&ab_channel=Study-Sound-Girl	00:00:00 to 00:20:00	Not used in mix
https://www.youtube.com/watch?v=y72T05sv3T0&ab_channel=mrkntdotcom			
https://www.youtube.com/watch?v=qyhlc0UsUGE&ab_channel=ProDSLRLR			
https://www.youtube.com/watch?v=_OINELz4zOU&ab_channel=FlytPath			
https://www.youtube.com/watch?v=gLP8GU0AWZw&ab_channel=FlytPath			
https://www.youtube.com/watch?v=7xAZTra99vg&ab_channel=ReadySetDrone			
https://www.youtube.com/watch?v=w6ZWzBnOuM&ab_channel=CAPTAINDRONE			
https://github.com/saraalemedi/DroneAudioDataset			
https://github.com/DroneDetectionThesis/Drone-detection-dataset			

Testing Audio

The recorded drone audios (Mavic Mini 2 and RED5 Eagle) are available to download from https://www.dropbox.com/sh/tpmsj5cac5btkf3/AABtmZFpY2aP88IhzByjLnRTa/Unseen%20Drone%20Audio?dl=0&subfolder_nav_tracking=1. For the positive component of the dataset, they were individually mixed with the background audio shown in Table 2. Where *UAV audio reduced/increased* is stated, the UAV audio's volume is changed. For everything else, the volume change is done on the background audio. The Dropbox folder also contains around 330 seconds of helicopter audio collected with an iPhone 12 Mini, as well as the **Real-world Testing Dataset**. Not included in Table 2 is the negative (background only) component of the dataset. This is created by using the same background audios in Table 2 (without the UAV mixed in), and then adding extra audios from each background scene, to equalise the number of positive to negative testing data.

Table 2 Positive Unseen Audio Testing Dataset Creation URLs

Background	Time Used (hr:min:sec)	Volume when mixed with individual UAV audios (dB)
https://www.youtube.com/watch?v=fh3EdeGNKus	09:00:00 to 09:10:00	-6
	09:10:00 to 09:25:00	3
	09:25:00 to 09:35:35	9
Recorded helicopter audio with iPhone 12 Mini	ALL	-1
https://www.youtube.com/watch?v=2NPtEKzZeVU	00:20:00 to 00:24:34	-8
	00:24:34 to 00:39:34	0
	00:39:34 to 00:50:00	4
https://www.youtube.com/watch?v=04Xa26YOfcw	00:00:00 to 00:10:00	-6
	00:10:00 to 00:25:00	0
	00:25:00 to 00:35:35	3
https://www.youtube.com/watch?v=gVKEM4K8J8A	01:43:00 to 01:50:00	0
	01:50:00 to 02:05:00	-5 (UAV audio reduced)
	02:05:00 to 02:40:35	-10 (UAV audio reduced)
https://www.youtube.com/watch?v=B1T06UhcX0Q	01:08:00 to 01:18:00	0
	01:18:00 to 01:33:00	-5 (UAV audio reduced)
	01:33:00 to 01:43:35	-10 (UAV audio reduced)
https://www.youtube.com/watch?v=sT5f1jBJHng	01:04:00 to 01:14:00	3 (UAV audio increased)
	01:14:00 to 01:29:00	-1 (UAV audio reduced)
	01:29:00 to 01:39:35	-4 (UAV audio reduced)