



Title	Malta Audio Visual Anomaly Dataset (MAVAD)																																							
Creator / Responsible Partner	Greenroads Ltd.																																							
Dataset Identifier	01_GRN-AV_AD_MARVEL_v1																																							
DOI	10.5281/zenodo.7950008																																							
Dataset Description	<p>The raw audio-video data was collected from two locations on the island of Malta one in Zejtun, a town close to the industrial region on the eastern coast, and another in Mgarr, a rural town on the western coast. Three AV cameras were deployed, two in Zejtun (Zejtun Scrapyard and Zejtun Field) and one in Mgarr, resulting in three datasets with the same titles.</p> <p>Data has been manually annotated. A series of 5-minute video snippets were provided to annotators and they proceeded with trimming the video into shorter videos. Each trimmed video would belong to a class listed in Table 1. The normal classes are defined by the absence of any other class. The annotators were given the option of trimming the video with a video editing tool. To label a trimmed video, the annotators were instructed to change the video name to the format <anomaly>(<number>).mp4. Table 1 provides further details about the number of events per location per event.</p> <p>A folder for each dataset is presented, with each video name being the label of that video in the format <anomaly>(<number>).mp4. A folder for video and a folder for audio data are presented. The video data has been anonymised and masked.</p> <p>Table 1: List of Examples per Snippet</p> <table border="1"><thead><tr><th rowspan="2">Label</th><th colspan="3">Examples per label</th></tr><tr><th>Mgarr</th><th>Zejtun Scrapyard</th><th>Zejtun Field</th></tr></thead><tbody><tr><td>normal</td><td>161</td><td>117</td><td>125</td></tr><tr><td>pedestrians</td><td>65</td><td>7</td><td>19</td></tr><tr><td>pedestrian crossing the road</td><td>21</td><td>48</td><td>33</td></tr><tr><td>bicycle</td><td>10</td><td>12</td><td>17</td></tr><tr><td>bus</td><td>20</td><td>/</td><td>1</td></tr><tr><td>exit side street</td><td>44</td><td>/</td><td>/</td></tr><tr><td>heavy goods vehicle</td><td>21</td><td>4</td><td>3</td></tr><tr><td>obstruction</td><td>3</td><td>10</td><td>8</td></tr></tbody></table>	Label	Examples per label			Mgarr	Zejtun Scrapyard	Zejtun Field	normal	161	117	125	pedestrians	65	7	19	pedestrian crossing the road	21	48	33	bicycle	10	12	17	bus	20	/	1	exit side street	44	/	/	heavy goods vehicle	21	4	3	obstruction	3	10	8
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	u-turn	1	9	6
	Micro e-scooter		3	2
	horse	/	2	/
	Total	346	212	214
Work Package/Deliverable	WP6			
Source	Data was collected from 3 different AV cameras in Malta			
Processing	Data has been anonymised by blurring out faces and masking the areas that are not relevant.			
Repository	Zenodo, MARVEL Data Corpus			
Language	English			
Code list	N/A			
Type	Video and Audio Data			
Format	Video data saved as mp4 and Audio data saved as raw			
Expected Size	21.5 GB			
Keywords	multimodal, audio, video, anomaly, road, traffic, vehicles, pedestrians			
Version	v1.0			
Date of Repository Submission	2023-06-01			
Necessary software	N/A			
Rights	Creative commons licence (by attribution, no commercial use)			
Access Information	Open Access, Zenodo, MARVEL Data Corpus, Creative Commons Attribution 4.0 International			