

MP4 Recording

Materials

- Ameba Pro2 [AMB82-Mini] x 1
- SD card x 1

Example

Introduction

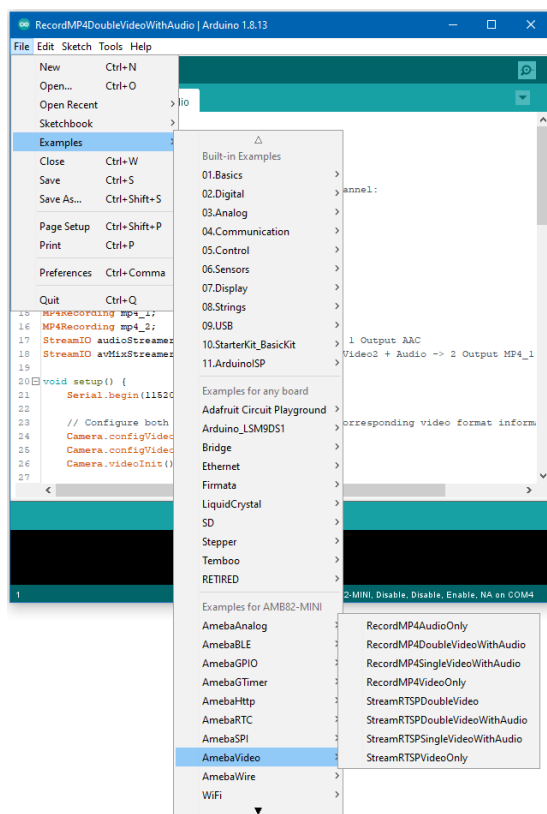
In this example, we will use the Ameba Pro2 development board to record video and audio data from the on-board camera sensor (JXF37) and audio codec to an MP4 file on the SD card.

The following examples shows different use cases for MP4 recording.

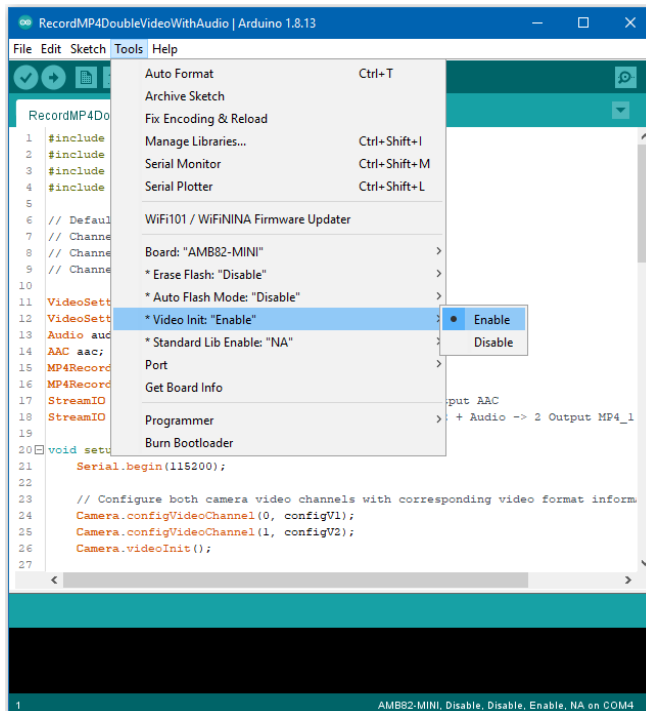
1. RecordMP4AudioOnly
2. RecordMP4VideoOnly
3. RecordMP4SingleVideoWithAudio
4. RecordMP4DoubleVideoWithAudio

Procedure

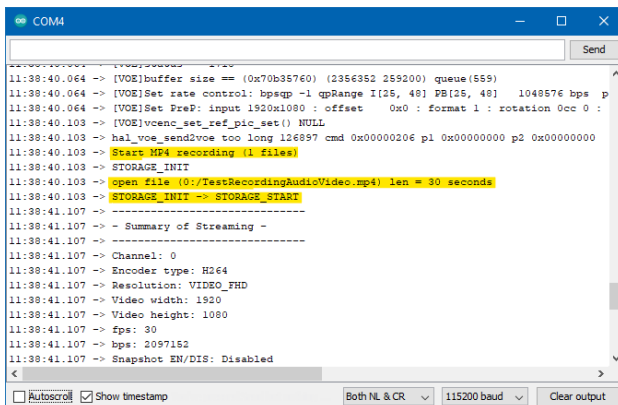
Open one of the RecordMP4 examples in "File" -> "Examples" -> "AmebaVideo".



Since the camera video output will be used, ensure that the “Video Init” option in “Tools” is set to enabled.



Compile the code and upload it to Ameba. After pressing the Reset button, the Ameba Pro 2 board will start recording MP4 to SD card.



After the recording duration has passed, the MP4 file will stop recording.

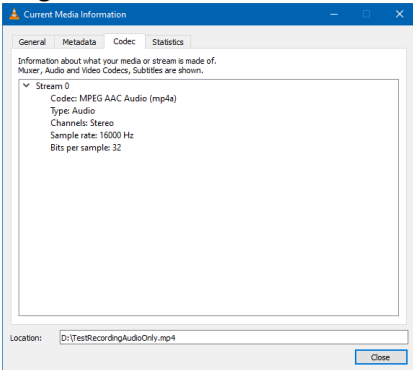
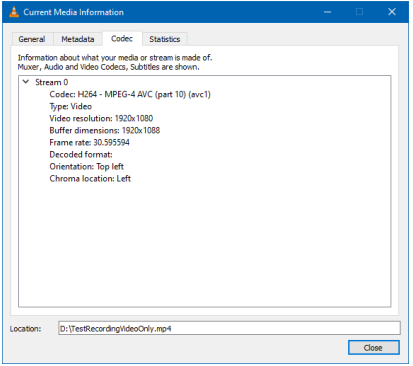
```

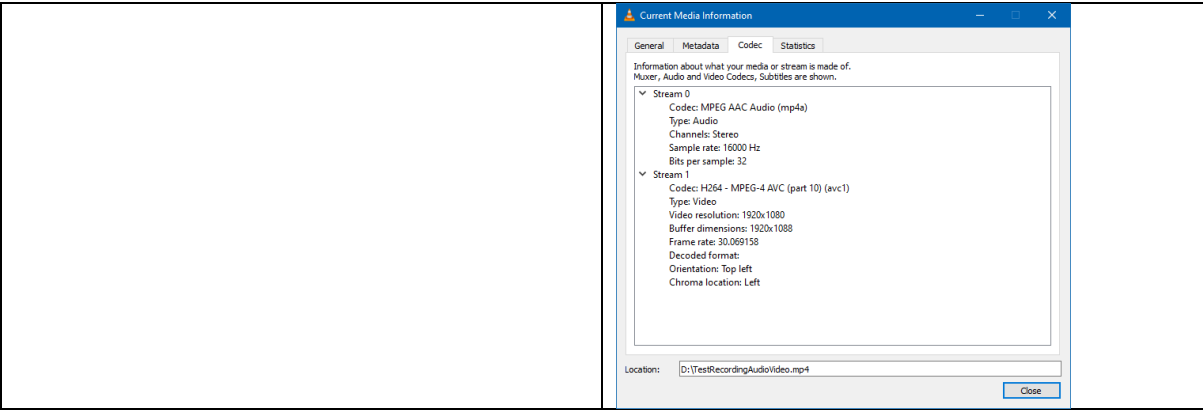
COM4
11:38:41.141 -> dmic left gain: 24dB
11:38:41.141 -> dmic right gain: 24dB
11:38:41.141 ->
11:38:41.141 -> - AAC Information -
11:38:41.141 -> Sample rate: 8000 Hz
11:38:41.141 -> AAC Bit Length: 16 bit
11:38:41.141 -> MPEG version: MPEG4
11:38:41.141 -> Total AAC memory size: 10240
11:38:41.141 -> Total AAC memory block size: 128
11:38:41.141 -> Total AAC memory frame size: 1024
11:38:41.141 ->
11:38:41.141 -> - MP4 Recording Information -
11:38:41.141 -> Recording file name: TestRecordingAudioVideo
11:38:41.186 -> Recording duration: 30 seconds
11:38:41.186 -> File count: 1
11:38:41.186 ->
11:39:10.164 -> STORAGE_STOP
11:39:10.164 -> video_len = 900 audio_len = 234 movv_len = 32920 total_size = 3996976
11:39:10.213 -> STORAGE_STOP -> STORAGE_IDLE
11:39:39.657 ->

```

Autoscroll ☒ Show timestamp Both NL & CR 115200 baud Clear output

Disconnect power from the Ameba Pro 2 board, remove the SD card and connect it to a computer to view the contents. Depending on the compiled example, there will be either one or two MP4 videos. Using VLC to open the MP4 file, detailed information about the MP4 files can be obtained in “Tools” -> “Codec Information”.

Example	MP4 file details
RecordMP4AudioOnly	<p>Single 30 second MP4 file with audio only</p> 
RecordMP4VideoOnly	<p>Single 30 second MP4 file with video only</p> 
RecordMP4SingleVideoWithAudio	Single 30 second MP4 file with audio and video



RecordMP4DoubleVideoWithAudio

One 30 second and one 15 second MP4 file
Both files with audio and video

