

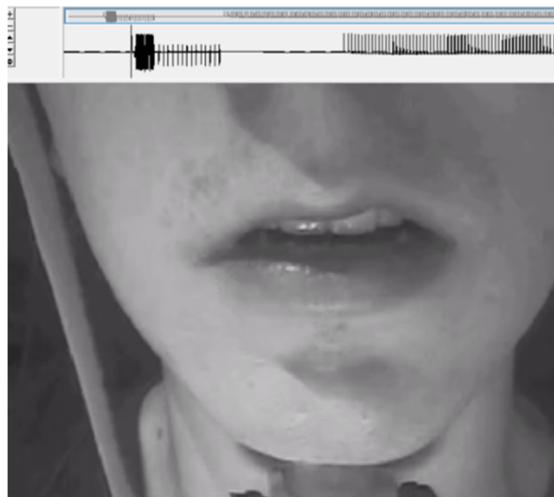
Batch synchronise video data.

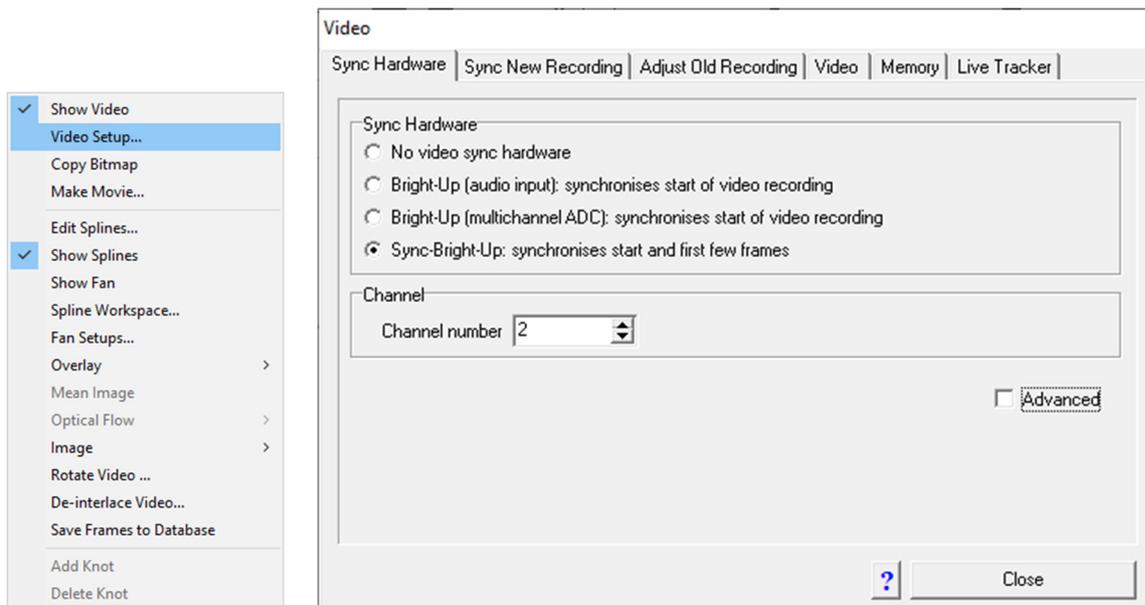
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Video data is not automatically synchronised as there are some choices to be made.

First, please ensure that you are viewing a [Task Window](#) in AAA which has a video display. For example, the Record Video (Ultrasound) Task Window that is provided with AAA has a video display in the bottom-right. After synchronisation the 4 flashes in the video frames should line up with 4 tone bursts at the start of the video signal.





There are several tabs across the top.

Sync Hardware

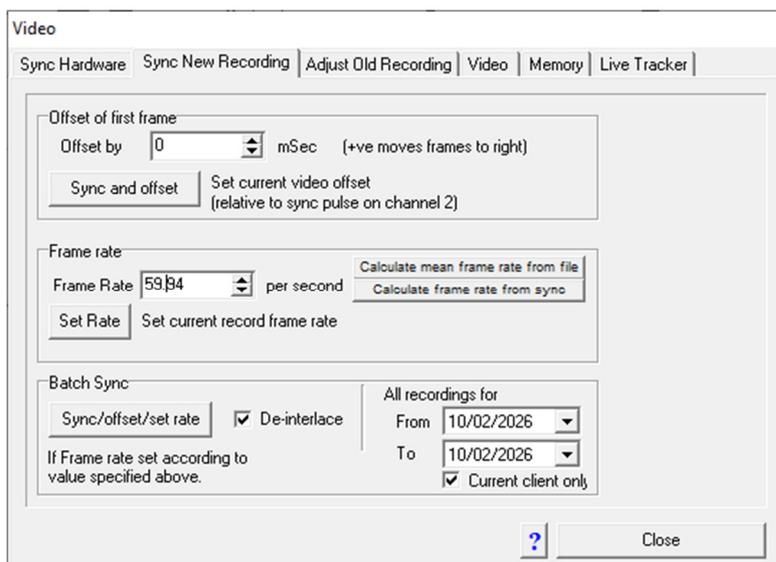
Select the “Sync Hardware” tab and make sure it is set to **Sync-Bright-Up synchronises start and first few frames**.

Channel number matches the channel with the video sync pulse. Usually channel 2.

Advanced - Leave the advanced options. They should be correct. See the appendix for what the advanced parameters do.

Sync New recording

Select the “Sync New Recording” tab



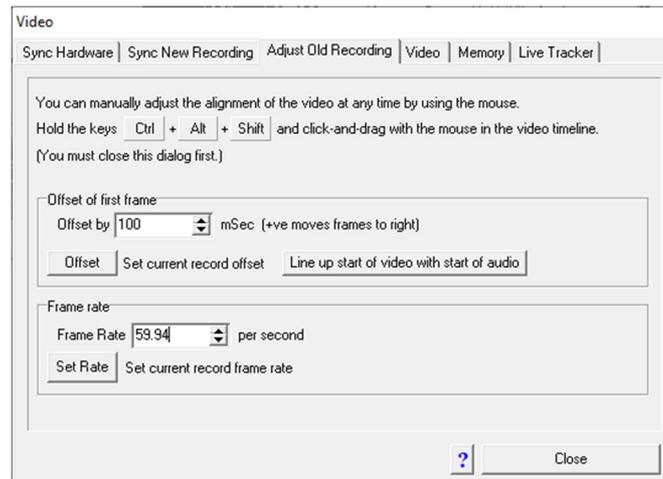
The synchronisation dialog allows the parameters to be changed.

1. Ignore the Offset of first frame settings
2. Make sure the Frame rate is set to 59.94 or 60. The exact frame rate varies for each camera.

3. Ignore the calculate buttons. They don't give the correct answers.
4. Make sure the de-interlace checkbox is checked.
5. Set the range of recording dates to be synchronised.
6. Check Current client only if desired but otherwise leave unchecked
7. Click the Sync/offset/set rate button to start the synchronisation process

Adjust Old Recordings

The Adjust Old Recordings tab allows manual offsetting of the video data relative to the audio. Use this to manually offset the video data relative to the waveform.



Appendix

These should not need to be changed. On *very rare* occasions, it may be necessary to adjust the Tone Threshold and Pulse Threshold values.

- **Tone Frequency** should always be 1000
- **Tone threshold** sets the level at which the tone in the sync signal is detected and will usually be positive and in the range 20-60. Observe the sync signal and note the amplitude and polarity of the 4 tones at the start as a percentage of the y-axis then adjust the threshold to detect this level of signal.
- **Pulse threshold** sets the level at which 10 vertical sync pulses are detected and is often negative and less than the magnitude of the tone threshold. Observe the sync signal and note the amplitude and polarity of the 14 pulses as a percentage of the y-axis then adjust the threshold to detect this level of signal. Default of -10 should work for most signals.
- **Beep Length** should be set to the duration of the sync tone pulses = 50ms. In exceptional circumstances if the sync signal has been distorted then this duration can be shortened to cope.
- **Beep/flash delay** AAA waits until this number of video frames have been received before issuing the command to produce a beep to trigger the synchronisation. This ensures the flash appears in the recorded data.
- **Approx frame rate** should be kept set anywhere in the range 25-30

- **Flash must be within X ms** AAA only looks up to this maximum amount of time from the start of the file for the flash. By default it is set to 1.5 seconds. If for any reason the flash is delayed beyond 1.5 seconds, this value can be extended.