File Stitching/Converting

Note that this section is subject to change as more user friendly programs become available. Please check with your project manager for the most up to date procedures.

The multiple .MP4 files created by the GoPros for each deployment can be stitched into a single file or kept separate and loaded straight into EventMeasure. If you choose to stitch the files use a program such as Xilisoft (http://www.xilisoft.com/video-converter.html), and follow the instructions below (Note: the 'Ultimate' version will allow all functions and watermarking so is recommended).

1.1. Open Xilisoft and click on the 'Profile' dropdown box near the bottom of the screen and select HD Video. To the right a list will populate with all of the available HD video formats.

1.2. At the bottom of this list will be 'Xvid HD Video' select this profile. **Note**: if the Xvid profile is not available then you will need to download and install it from here (https://www.xvid.com/download/).

1.3. You will need to modify the profile depending on the type of camera that was used. At the top right of the Xilisoft screen is the Profile settings dialogue box. Click on the down arrow and select 'Video Stream' this will bring up the video codec settings which you can now modify.

1.4. Load the .MP4 files into Xilisoft by simply dragging and dropping them into the middle of the screen.

1.5. Right click on **one** of the videos, select properties and check that the "Source Properties" match the "Output Settings" in the "Video Stream#1" section. If these do not match you can change them in the Profile menu. You will most likely need to change the 'Video Size', 'Bitrate' and 'Zoom' settings only. **Make sure zoom is always set to "Full" and set the bitrate as close to the original video as possible.** Do not change any settings below this.

1.6. If you consistently use the same cameras, click the 'Save As...' button at the end of the Profile dropdown box and enter a new name. This profile will now be available in the 'User Defined'

section in the Profiles and will save you changing codec setting each time. Just make sure you have all of your videos selected when you choose this profile to apply to all.

1.7. Select all streams corresponding to one BRUV replicate/left or right camera, right click then select 'Join' and rename the new video appropriately (i.e. OpCode_Left/Right_CameraNumber).

1.8. Remove all the individual streams leaving the merged format only then select all of the videos you want to convert. Depending on your computer you should get up to 16 one hour videos converted overnight. Check that the 'Subtitles' box has 'None" selected, set your destination folder to the desired location (i.e. and external HD) and start conversion.
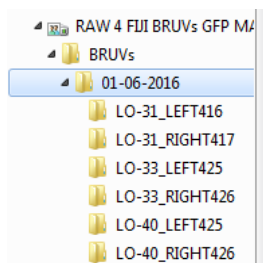
If you choose to leave videos in the raw GoPro format with multiple streams follow the Bulk Rename Utility guide below:

Bulk Rename Utility (for use of multiple video streams in EventMeasure)
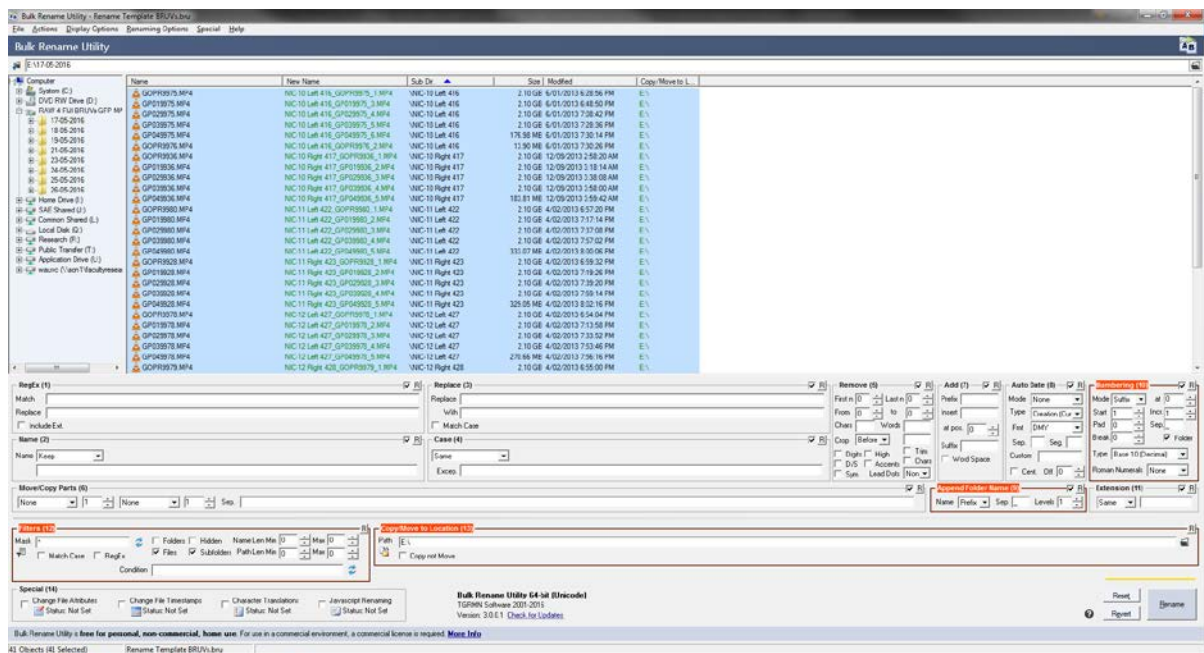
This program will allow you to rename all of your .MP4 streams based on the naming convention of your folders and add a unique ID so they are sorted in chronological order. It will also transfer videos from individual folders into one folder to assist in the "set picture directory" process in EventMeasure (see guide below).

Download the software here: http://www.bulkrenameutility.co.uk/Download.php

1.) If you have followed the folder naming convention outlined in Stereo-BRUVs SOP1:

then match the settings below in the bulk rename utility (note you only need to change setting in the boxes that are outlined in red):

2.) **Important:** You will now need to sort by the "Modified" column and then "Sub Dir." By clicking on them consecutively.

3.) Select all of the files and check that they will be named correctly (the new name comes up in green when you select the files). They should have the OpCode at the start, the left/right camera and corresponding number, the original GoPro file name (this is a backup only) and a unique identify for each stream (usually 1 to 4).

4.) Check that the Copy/Move to Location is set to your desired path i.e. the hard drive you are using and select Rename.

5.) You can now delete all the folders that don't contain any video files. **Note:** Keep the Raw HD in the original format in case of errors.