Additional notes:

There have been some updates since the document has been written. Please see below for updated information.

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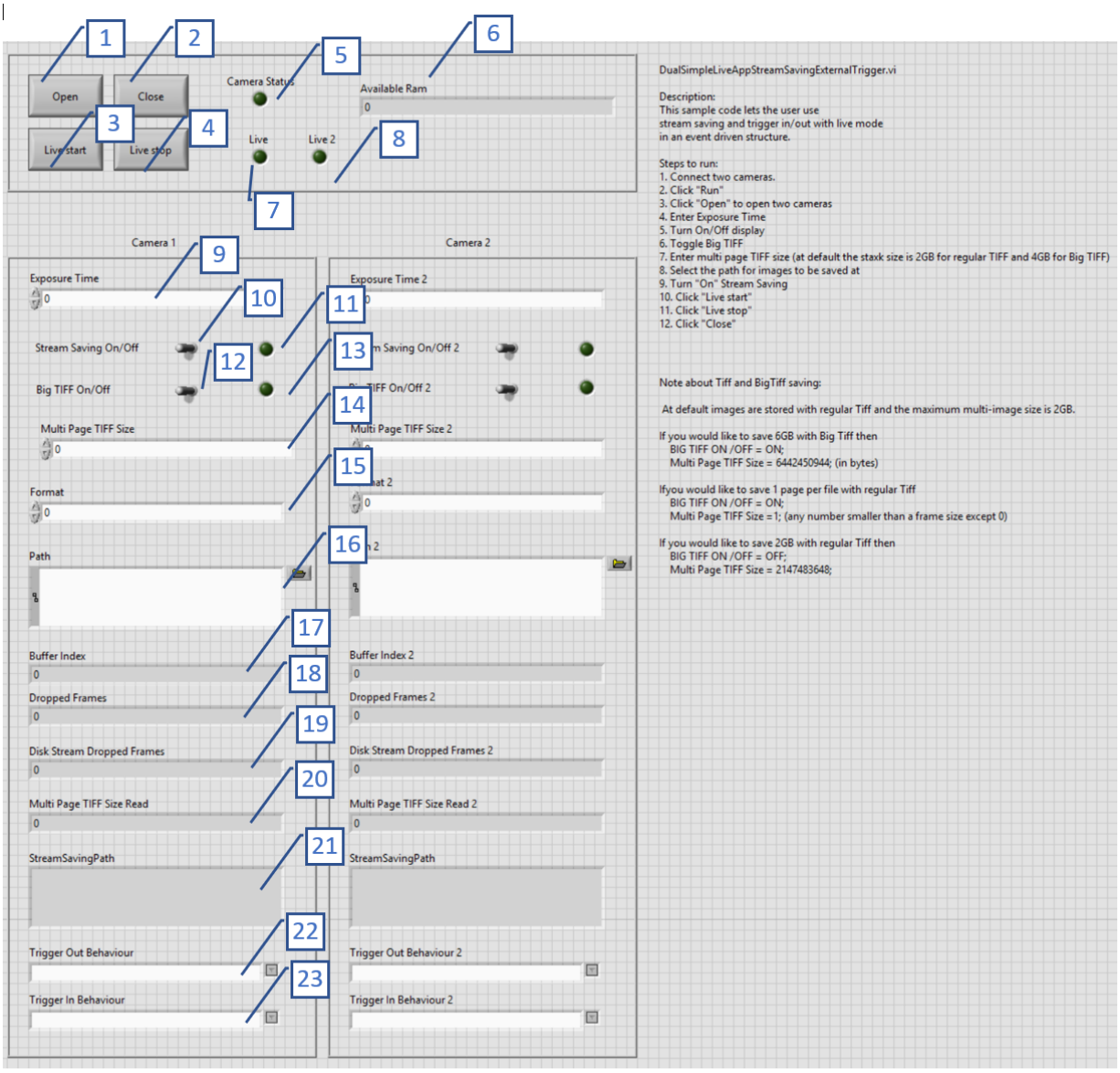
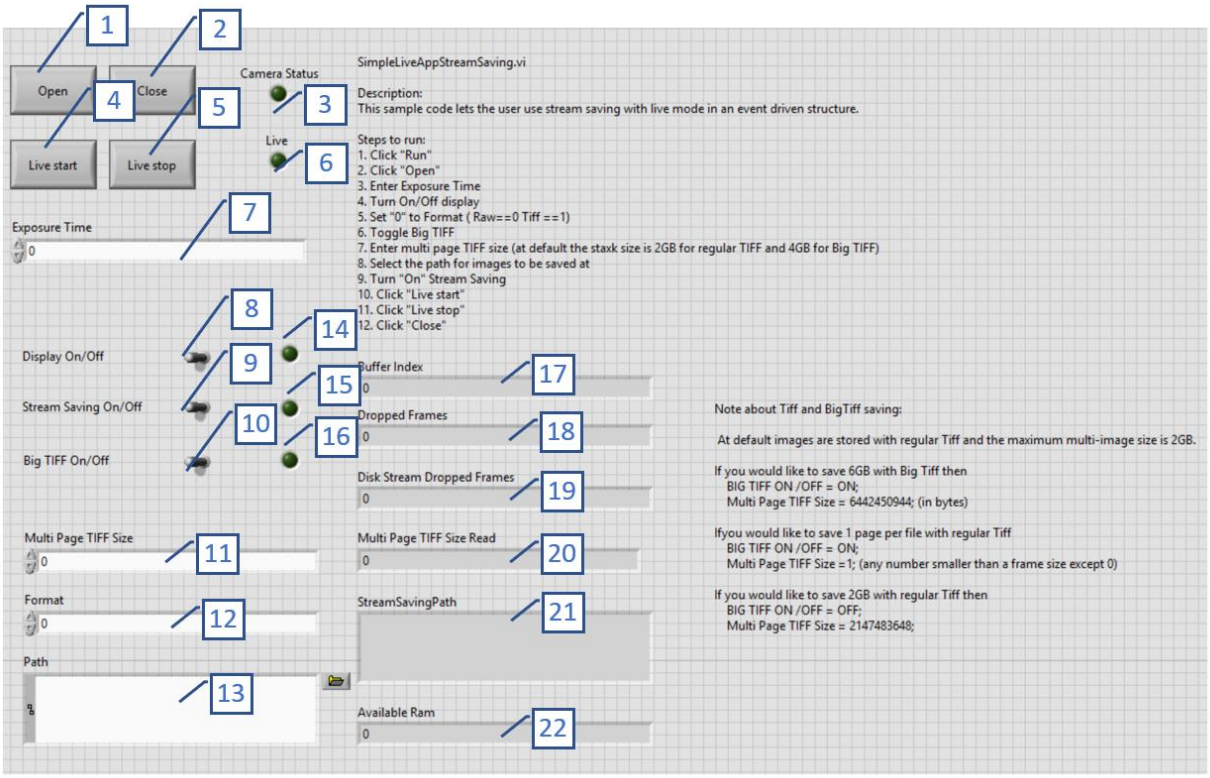
**DualSimpleLiveAppStreamSavingExternalTrigger.vi**




1. Open button to initialize PVCamNET and open the first index camera
2. Close button to close the camera and uninitialized PVCamNET
3. Live start button starts live mode

4. Live stop button stops live mode
5. Camera Status becomes on upon initialization
6. Available Ram indicator tells available memory in bytes.
7. Live indicator turns on during live mode for camera #1
8. Live indicator 2 turns on during live mode for camera #2
9. Exposure Time sets exposure time
10. Stream Saving On/Off toggle switch allows to turn on/off stream saving
11. The indicator turns on if stream saving is on.
12. Big TIFF On/Off toggle switch
13. The indicator turns on if Big TIFF is on
14. Multi Page TIFF size for TIFF and Big TIFF
15. Stream saving format. 0 is for RAW and 1 for TIFF.
16. Stream saving images will be saved in this path
17. Buffer Index indicator tells image buffer index
18. Dropped frames indicator tells the number of images that have been dropped
19. Disk Stream Dropped Frames indicator tells the number of streaming images that have been dropped
20. Multi Page TIFF Size Read
21. StreamSavingPath indicator tells the path of stream saving images
22. Trigger Out Behaviour combo box allows to update supported expose out mode.
23. Trigger In Behaviour combo box allows to update supported trigger mode

**SimpleLiveAppStreamSaving.vi**



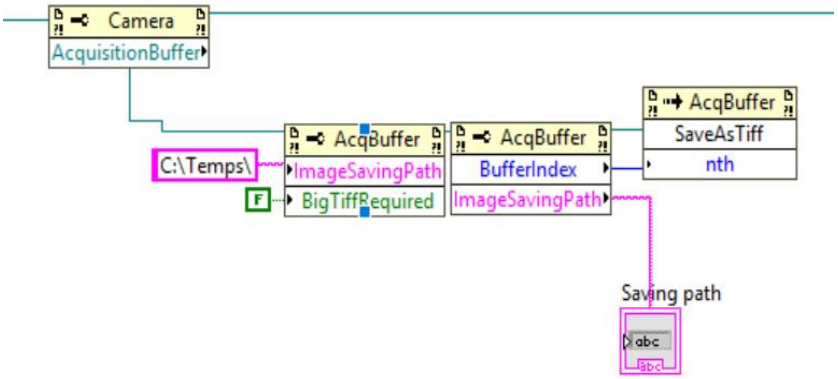

1. Open button initializes PVCamNET and open the first camera
2. Close button closes the camera and uninitializes PVCamNET
3. Camera Status indicator turns on after camera is successfully opened
4. Live start button starts live mode
5. Live stop button stops live mode
6. Live indicator turns on during live mode is on
7. Exposure Time sets exposure time
8. Display turn on/off toggle switch
9. Stream saving turn on/off toggle switch
10. Big TIFF on/off toggle switch
11. Multi Pgae TIFF Size in bytes
12. Format  (0 for RAW mono only and 1 for TIFF mono and color)
13. The directory where stream saving images are saved
14. Display on/off indicator
15. Stream saving on/off indicator
16. Big TIFF on/off indicator
17. Buffer index
18. Dropped frames
19. Stream saving dropped frames

20. Multi Page TIFF Size display
21. Stream saving path
22. Available ram indicator

**Saving Images**

There are two ways to save the image data. One is to save image(s) given image buffer index and the other is to use stream saving.

For the first method the user must access Camera AcqusitionBuffer, select BufferIndex, and finally access Frame's SaveAsTiff from FrameToDisplay. The user also has to set the output directory from AcqBuffer ImageSavingPath. (Example: SingleAcquisitionSaveTiffImage.vi SequenceAcquisitionSaveMultipleTiffImage.vi)




For stream saving mode the user must set the following properties in AcquisitionBuffer:

- DiskStreamingRequired to be true
- DiskStreamingSavingPath to be where the user wants output images to be. The folder must exist.
- DiskStreamingFormat to be either 0 or 1.
    - 0 for RAW format. Mono is supported. (default)
    - 1 for TIFF format. Mono and color are both supported.

(Example: SimpleLiveAppStreamSaving.vi)

If TIFF format is chosen at default a multi-page size is 2GB. The size can be configured with AcqBuffer MultiPageFrameSize.

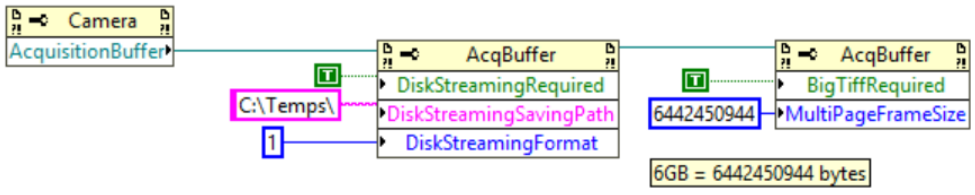
If Big TIFF format is preferred, then AcqBuffer BigTIFFRequired must be set true and MultiPageFrameSize can be configured in any size

Examples for Tiff and BigTiff stream saving:

If you would like to save 6GB with Big Tiff then

BigTiffRequired = true;

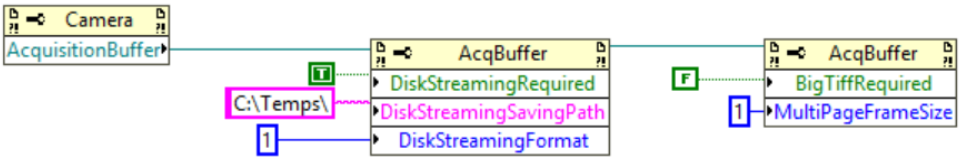
MultiPageFrameSize = 6442450944; (in bytes)



If you would like to save 1 page per file with regular Tiff

BigTiffRequired = true;

MultiPageFrameSize =1; (any number smaller than a frame size except 0)




If you would like to save 2GB with regular Tiff then

BigTiffRequired = false;

MultiPageFrameSize = 2147483648;