CLAIMS

What is claimed is:

1. A continuous video capture apparatus, comprising:

glasses, comprising:

a first temple having a first temple housing, and

a second temple having a second temple housing;

a battery located in the first temple housing;

a camera mounted on the glasses;

a capture button located on the second temple housing; and

video capture circuitry located in the second temple housing and comprising:

a processor, and

a computer-readable medium containing instructions that when executed cause the processor to:

allocate memory to a buffer, the memory comprising an original portion of the buffer;

receive raw video data from the camera;

encode the received video data;

place the encoded video in the buffer at a data end position;

update the data end position to a next available address in the buffer; and

update a data start position to a location corresponding to twenty seconds of video behind the data end position,

wherein the capture button is configured, upon receiving a single press, to cause the processor to:

allocate memory to extend the buffer, resulting in an extended portion of the buffer to support an additional twenty seconds of video;

save the data end position and update it to point to an address at the beginning of the extended portion of the buffer;

save the encoded video in the original portion of the buffer to a file;

receive an additional twenty seconds of video from the camera;

encode the additional twenty seconds of video as it is received and place it in the extended portion of the buffer;

add the encoded video in the extended portion of the buffer to the file;

deallocate the original portion of the buffer; and

send the file to an external device, and

wherein the capture button is configured, upon receiving a double press, to cause the processor to:

execute a loop in which the processor:

allocates memory to extend the buffer,

save the data end position and update it to point to a second extended portion of the buffer,

saves the encoded video in the original portion and extended portion of the buffer to a file,

receive additional raw video from the camera;

encode the additional raw video as it is received and place it in the second extended portion of the buffer;

adds the encoded video in the second extended portion of the buffer to the file, and

deallocates the original portion of the buffer;

terminate the loop when the capture button is pressed an additional time;

finish saving the encoded video data and close the file; and

send the file to an external device.

2. The video capture apparatus of claim 1, further comprising a second battery located in the second temple housing.

3. The video capture apparatus of claim 1, further comprising an eye-tracking device attached to the glasses and configured to focus the camera in the direction of a gaze of a user.

4. The video capture apparatus of claim 1, further comprising a light configured to illuminate from a first end to a second end corresponding to a placement of video into the original portion and extended portion of the buffer.