CLAIMS

1. A measurement recording system comprising:

a plurality of imaging units each configured to capture a video and transmit captured video information; and

a recording device including a first recording unit and a second recording unit, the first recording unit being configured to record a first captured video, which includes measurement information of a measuring instrument, based on first video information from a first imaging unit out of the plurality of imaging units, and the second recording unit being configured to record a second captured video, which includes an inspection target measured by the measuring instrument, based on second video information from a second imaging unit out of the plurality of imaging units,

wherein the recording device is configured to

measure timing information for correcting out-of-synchronization of a time axis between the first captured video to be recorded by the first recording unit and the second captured video to be recorded by the second recording unit, and

correct the out-of-synchronization to align start timing of the first captured video and start timing of the second captured video, based on the measured timing information.

2. The measurement recording system as recited in claim 1,

wherein the first video information includes measuring instrument video information acquired by imaging a measuring instrument-side display unit for displaying the measurement information about ~~an~~ the inspection target measured by the~~a~~ measuring instrument,

wherein the second video information includes inspection target video information acquired by imaging the inspection target in a state of being inspected by an inspection operator, and

wherein the recording device is configured to correct the out-of-synchronization to align the start timing between the first captured video to be recorded

based on the measuring instrument video information and the second captured video to be recorded based on the inspection target video information.

3. The measurement recording system as recited in claim 2,

wherein the first imaging unit is arranged at a position spaced apart from the inspection operator, and

wherein the second imaging unit is configured to be portable or wearable to the inspection operator.

4. The measurement recording system as recited in any one of claims 1 to 3,

wherein the recording device is configured to:

correct the out-of-synchronization to align the start timing of the first captured video and the start timing of the second captured video, and

store the first captured video and the second captured video in a state in which the out-of-synchronization is corrected in association with each other.

5. The measurement recording system as recited in any one of claims 1 to 4,

wherein the recording device includes a timer unit for measuring the timing information indicating a time by measuring an elapsed time and is configured to correct the out-of-synchronization based on the timing information measured by the timer unit.

6. The measurement recording system as recited in claim 5,

wherein the first recording unit and the second recording unit are configured to start recording the first captured video and the second captured video based on a recording instruction for causing the first recording unit and the second recording unit to start recording, and

wherein the recording device is configured to correct the out-of-synchronization of the time axis between the first captured video recorded based on the

recording instruction and the second captured video recorded based on the recording instruction.

7. The measurement recording system as recited in claim 6,

wherein the timing information includes a first start timing indicating a timing at which the first recording unit starts recording and a second start timing indicating a timing at which the second recording unit starts recording, and

wherein the recording device is configured to correct the out-of-synchronization based on a difference between the first start timing and the second start timing.

8. The measurement recording system as recited in claim 6 or 7, further comprising:

a recording operation unit configured to receive an operation for causing the first recording unit and the second recording unit to start recording,

wherein the recording device is configured to:

output the recording instruction based on an input operation to the recording operation unit, and

correct the out-of-synchronization of the time axis between the first captured video recorded based on the recording instruction and the second captured video recorded based on the recording instruction.

9. The measurement recording system as recited in any one of claims 5 to 8,

wherein the recording device is configured to correct the out-of-synchronization by cropping a video for a time corresponding to the out-of-synchronization from at least one of the recorded first captured video and the recorded second captured video based on the timing information measured by the timer unit.

10. The measurement recording system as recited in any one of claims 1 to 9,

wherein the timing information includes:

first preparation completion information output from the first recording unit, the first preparation completion information indicating that preparation for starting recording the first captured video has been completed, and

second preparation completion information output from the second recording unit, the second preparation completion information indicating that preparation for starting recording the second captured video has been completed, and

wherein the recording device is configured to correct the out-of-synchronization based on the first preparation completion information and the second preparation completion information.

11. The measurement recording system as recited in claim 10,

wherein the recording device is configured to:

measure the timing information including the first preparation completion information and the second preparation completion information, and

output a recording instruction for causing the first recording unit and the second recording unit to start recording based on that the timing information has been measured to correct the out-of-synchronization.

12. The measurement recording system as recited in claim 10,

wherein the first recording unit is configured to output the first preparation completion information and start recording the first captured video,

wherein the second recording unit is configured to output the second preparation completion information and start recording the second captured video, and

wherein the recording device is configured to correct the out-of-synchronization based on a difference between a timing at which the first preparation completion information is acquired and a timing at which the second preparation

completion information is acquired, based on the first preparation completion information and the second preparation completion information.

13. The measurement recording system as recited in any one of claims 1 to 12,

wherein the first imaging unit and the second imaging unit are configured to image a reference target capable of acquiring time information at the same timing in order to correct a deviation of the time axis between the first video information from the first imaging unit and the second video information from the second imaging unit, and

wherein the recording device is configured to:

measure the timing information indicating the deviation of the time axis between the first video information and the second video information based on ~~the~~ a first reference image in which the first imaging unit imaged the reference target and ~~the~~ a second reference image in which the second imaging unit imaged the reference target, and

correct the out-of-synchronization based on the measured timing information.

14. The measurement recording system as recited in claim 13,

wherein the reference target includes a reference time indicator for indicating a reference time for correcting the deviation of the time axis between the first video information from the first imaging unit and the second video information from the second imaging unit, and

wherein the recording device is configured to:

acquire the first reference image in which the first imaging unit imaged the reference time indicator and the second reference image in which the second imaging unit imaged the reference time indicator, and

measure the deviation of the time axis between the timing at which the first video information was imaged and the timing at which the second video

information was imaged by performing image processing on the acquired first reference image and the acquired second reference image.

15. A measurement recording method comprising the steps of:

recording using a first recording unit of a recording device a first captured video, which includes measurement information of a measuring instrument, based on first video information captured by a first imaging unit out of a plurality of imaging units;

recording using a second recording unit of the recording device a second captured video, which includes an inspection target measured by the measuring instrument, based on second video information captured by a second imaging unit out of the plurality of imaging units;

measuring with the recording device timing information for correcting out-of-synchronization of a time axis between the first captured video to be recorded and the second captured video to be recorded; and

correcting with the recording device out-of-synchronization to align a start timing between the first captured video and the second captured video based on the measured timing information.

16. The measurement recording method as recited in claim 15,

wherein the step of recording using the first recording unit of the recording device the first captured video is a step of recording the first captured video, based on the first video information including measuring instrument video information acquired by imaging a measuring instrument-side display unit for displaying the measurement information about ~~an~~ the inspection target measured by the~~a~~ measuring instrument, and

wherein the step of recording using the second recording unit of the recording device the second captured video is a step of recording the second captured video, based on the second video information including an inspection target video information acquired by imaging the inspection target in a state of being inspected by an inspection operator.