

WHAT IS CLAIMED IS:

1. A substrate processing system, comprising:

a first controller configured to acquire event data generated at a time of transferring a substrate and alarm data generated at a time of occurrence of a transfer error;

a recorder configured to, while recording a transfer operation of the substrate as first image data, record the transfer operation of the substrate as second image data having a higher resolution than the first image data;

a second controller configured to store the first image data recorded by the recorder in a first memory based on the event data, and store the second image data recorded by the recorder in a second memory based on the alarm data; and

an operating controller configured to display at least the first image data and the second image data,

wherein the second controller is configured to display both the first image data and the second image data recorded at the time of occurrence of the transfer error on a same screen.

2. The system of Claim 1, further comprising:

a transfer device configured to transfer the substrate; and

a detector configured to detect the transfer error generated by the transfer device,

wherein the first controller is configured to acquire a notification indicative of the transfer error from the detector and to notify error information, which includes at least a name of an apparatus in which the transfer error has occurred, an alarm ID set for the transfer error, and an occurrence time of the transfer error, to the second controller and the operating controller.

3. The system of Claim 2, wherein the second controller is configured to acquire the error information, convert the second image data acquired for a predetermined time before and after the occurrence of the transfer error into a file, store the file in the second memory, cause the operating controller to, based on the error information, display a same screen as an operation

screen of the apparatus in which the transfer error has occurred, and cause the same screen to display a device configured to receive an instruction to display the first image data acquired by the recorder.

4. The system of Claim 2, wherein the second controller is configured to, when receiving an instruction to display the first image data acquired by the recorder, perform switching to a screen including the first image data at the time of occurrence of the transfer error and the error information, and display the switched screen on the operating controller.

5. The system of Claim 2, wherein the second controller is configured to, when receiving an instruction to select the alarm ID and/or the transfer error occurrence time, cause the operating controller to display the second image data obtained by searching an inside of the second memory using the selected alarm ID and/or the transfer error occurrence time.

6. The system of Claim 2, wherein the detector is configured to detect event data indicative of start and end of transfer of the substrate by the transfer device,

wherein the first controller is configured to notify the second controller of the event data when the event data is detected by the detector, and

wherein the second controller is configured to, when notified of event data indicative of the end of the transfer operation of the substrate, cause the first memory to store the first image data recorded from start to end of the transfer operation of the substrate.

7. The system of Claim 2, wherein the second controller is configured to cause the same screen to display the second image data obtained by searching the inside of the second memory using the selected alarm ID and/or the transfer error occurrence and the first image data recorded from start to end of the transfer operation of the substrate stored in advance in the first memory.

8. The system of Claim 1, further comprising:

a plurality of transfer mechanisms configured to transfer the substrate; and
a detector provided in each of the transfer mechanisms and configured to detect the transfer error caused by each of the transfer mechanisms,
wherein the recorder is configured to capture an image of the transfer operation of the substrate by each of the transfer mechanisms to be recorded, and
the second controller is configured to cause the recorder to, while recording a motion image of the substrate transfer by each of the transfer mechanisms as the first image data, record a motion image of the substrate transfer by each of the transfer mechanisms as the second image data having a higher resolution than the first image data.

9. The system of Claim 8, wherein the second controller is configured to cause the recorder to record the first image data and the second image data when each of the transfer mechanisms to be recorded is transferring the substrate or a carrier containing the substrate.

10. The system of Claim 8, wherein the second controller is configured to cause the recorder not to record the first image data and the second image data when each of the transfer mechanisms to be recorded is stopped.

11. The system of Claim 8, wherein the second controller is configured to be able to specify one of the transfer mechanisms that has caused the transfer error according to the number of alarm ID acquired when the transfer error occurs.

12. The system of Claim 11, wherein the second controller is configured to obtain only the second image data of the recorder for recording the specified one of the transfer mechanisms.

13. The system of Claim 8, wherein each of the transfer mechanisms is at least one selected from the group consisting of a load port, a pod transfer device, a boat and a transfer machine.

14. A substrate processing apparatus, comprising:
- a first controller configured to acquire event data generated at a time of transferring a substrate and alarm data generated at a time of occurrence of a transfer error;
 - a recorder configured to, while recording a transfer operation of the substrate as first image data, record the transfer operation of the substrate as second image data having a higher resolution than the first image data;
 - a second controller configured to store the first image data recorded by the recorder in a first memory based on the event data, and store the second image data recorded by the recorder in a second memory based on the alarm data; and
 - an operating controller configured to display at least the first image data and the second image data,
- wherein the second controller is configured to cause the same screen to display both the first image data and the second image data recorded at the time of occurrence of the transfer error.
15. A method of manufacturing a semiconductor device, comprising:
- transferring a substrate; and
 - processing the substrate,
- wherein the act of transferring the substrate comprises:
- acquiring event data generated at a time of transferring the substrate and alarm data generated at a time of occurrence of a transfer error;
 - while recording a transfer operation of the substrate as first image data, recording the transfer operation of the substrate as second image data having a higher resolution than the first image data;
 - storing the recorded first image data in a first memory based on the event data and storing the recorded second image data in a second memory based on the alarm data; and
 - displaying the first image data or the second image data,

wherein the act of displaying includes displaying both the first image data and the second image data recorded at the time of occurrence of the transfer error on the same screen.