CLAIMS

1. An aircraft inspection support device comprising:

a first imaging unit configured to capture a measurement information image displayed on a measurement instrument-side display unit of a specific measurement instrument associated with a model of an aircraft or an inspection target of an aircraft component, the measurement instrument-side display unit being configured to display measurement information on the inspection target; and

an operator-side display unit configured to display the measurement information image so as to be visible to an inspection operator during performing an inspection operation near the inspection target.

2. The aircraft inspection support device as recited in claim 1,

wherein the operator-side display unit is configured to be carried by or mounted on the inspection operator.

3. The aircraft inspection support device as recited in claim 1 or 2, further comprising:

a storage unit configured to store the measurement information image; and

a control unit configured to perform control for acquiring an inspection pass/fail determination result related to the inspection target based on a measurement result of the measurement instrument-side display unit by the inspection operator, associating the measurement information image and the inspection pass/fail

determination result, and storing the measurement information image and the inspection pass/fail determination result in the storage unit.

4. The aircraft inspection support device as recited in claim 3,

wherein the control unit is configured to perform control for associating the measurement information image and the inspection pass/fail determination result at a time of acquiring the inspection pass/fail determination result and storing the measurement information image and the inspection pass/fail determination result in the storage unit.

5. The aircraft inspection support device as recited in claim 4, further comprising:

a determination operation unit configured to receive an input operation by the inspection operator as the inspection pass/fail determination result,

wherein the control unit is configured to perform control for associating the measurement information image and the inspection pass/fail determination result at a time of receiving the input operation to the determination operation unit and storing the measurement information image and the inspection pass/fail determination result in the storage unit.

6. The aircraft inspection support device as recited in claim 5,

wherein the determination operation unit is configured to receive, in addition to the inspection pass/fail determination result, the input operation by the inspection operator as information on an aircraft inspection, and

wherein the control unit is configured to perform control for storing the information on the aircraft inspection acquired from the determination operation unit in the storage unit.

7. The aircraft inspection support device as recited in any one of claims 3 to 6, further comprising:

a second imaging unit configured to image the inspection target, the second imaging unit being provided on a side of the inspection operator,

wherein the control unit is configured to perform control for associating an inspection target image that is an image captured by the second imaging unit, the measurement information image, and the inspection pass/fail determination result and storing the inspection target image, the measurement information image, and the inspection pass/fail determination result in the storage unit.

8. The aircraft inspection support device as recited in claim 7, further comprising:

a second imaging unit mounting member configured to mount the second imaging unit on a head of the inspection operator.

9. The aircraft inspection support device as recited in any one of claims 3 to 8, further comprising:

a voice acquisition unit configured to capture audio,

wherein the control unit is configured to perform control for associating associate voice information acquired by the voice acquisition unit, the measurement

information image, and the inspection pass/fail determination result and storing the voice information, the measurement information image, and the inspection pass/fail determination result in the storage unit.

10. The aircraft inspection support device as recited in any one of claims 3 to 9,

wherein the control unit is configured to perform control for storing the image captured by the measurement instrument-side display unit for displaying the measurement information composed of an analog signal in the storage unit as the measurement information image composed of a digital signal.

11. The aircraft inspection support device as recited in any one of claims 3 to 10, further comprising:

a communication unit configured to transmit/receive at least one of information in which the measurement information image and the inspection pass/fail determination result are associated and information on an aircraft inspection to/from the server device.

12. The aircraft inspection support device as recited in any one of claims 1 to 11,

wherein the operator-side display unit is configured as a head-mounted display for displaying an image of the inspection target and the measurement information image, the head-mounted display being configured to be mounted on a head of the inspection operator.

13. The aircraft inspection support device as recited in any one of claims 1 to 11,

wherein the operator-side display unit is configured as an arm-mounted display unit for displaying the measurement information image, the operator-side display unit being configured to be mounted on an arm of the inspection operator.

14. The aircraft inspection support device as recited in any one of claims 1 to 11,

wherein the operator-side display unit is attached to a measurement probe, the measurement probe being configured to be held by the inspection operator and connected to the measurement instrument to detect the measurement information.

15. The aircraft inspection support device as recited in any one of claims 1 to 11,

wherein the operator-side display unit includes a holding unit for holding an arrangement position with respect to the inspection target.

16. The aircraft inspection support device as recited in any one of claims 12 to 15, except when dependent on any one of claims 3 to 11, further comprising:

a storage unit configured to store the measurement information image;

a control unit configured to perform control for acquiring the inspection pass/fail determination result related to the inspection target, associating the measurement information image and the inspection pass/fail determination result, and

storing the measurement information image and the inspection pass/fail determination result in the storage unit; and

a touch panel configured to receive the inspection pass/fail determination result as an input operation by the inspection operator and serve as the operator-side display unit.

17. The aircraft inspection support device as recited in any one of claims 1 to 16, further comprising:

a measurement instrument mounting member configured to mount the measurement instrument on the inspection operator.

18. The aircraft inspection support device as recited in claim 1 or 2, further comprising:

a storage unit configured to store the measurement information image;

a storage operation unit configured to receive an operation for storing the measurement information image; and

a control unit configured to perform control for storing the measurement information image in the storage unit based on an operation received by the storage operation unit.

19. The aircraft inspection support device as recited in claim 18,

wherein the storage operation unit is configured to be carried or held by the inspection operator.

20. The aircraft inspection support device as recited in claim 18,

wherein the storage operation unit is attached to a measurement probe, the measurement probe being configured to be held by the inspection operator and connected to the measurement instrument to detect the measurement information.

21. The aircraft inspection support device as recited in any one of claims 18 to 20,

wherein the storage operation unit is arranged so as to be spaced apart from the control unit, and

wherein the control unit is configured to perform control for acquiring a signal for an operation for storing the measurement information image received by the storage operation unit by radio communication.

22. The aircraft inspection support device as recited in any one of claims 18 to 21,

wherein the control unit is configured to perform control for acquiring an inspection pass/fail determination result related the inspection target based on the measurement result of the measurement instrument-side display unit by the inspection operator, associating the measurement information image stored in the storage unit and the inspection pass/fail determination result based on the operation received by the storage operation unit, and storing the inspection pass/fail determination result in the storage unit.

23. The aircraft inspection support device as recited in any one of claims 18 to 22,

wherein the control unit is configured to associate the measurement information image stored based on an operation to the storage operation unit and discrimination information that makes the stored measurement information image identifiable and store the discrimination information in the storage unit.

24. The aircraft inspection support device as recited in any one of claims 18 to 23, further comprising:

a second imaging unit configured to image the inspection target, the second imaging unit being configured to be provided on a side of the inspection operator;

wherein the storage operation unit is configured to simultaneously or individually receive an operation for storing the inspection target image captured by the second imaging unit and an operation for storing the measurement information image,

wherein the storage unit is configured to store the measurement information image and the inspection target image, and

wherein the control unit is configured to perform control for storing the measurement information image and the inspection target image in the storage unit based on an operation received by the storage operation unit.

25. The aircraft inspection support device as recited in claim 24,

wherein the control unit is configured to perform control for acquiring the inspection pass/fail determination result related to the inspection target based on the measurement result of the measurement instrument-side display unit by the inspection

operator, associating at least one of the measurement information image and the inspection target image stored in the storage based on the operation received by the storage operation unit with the inspection pass/fail determination result, and storing the the inspection pass/fail determination result in the storage unit.

26. The aircraft inspection support device as recited in claim 24 or 25,

wherein the control unit is configured to perform control for associating at least one of the measurement information image and the inspection target image stored based on the operation to the storage operation unit with discrimination information that makes at least one of the measurement information image and the inspection target image stored identifiable and storing the discrimination information in the storage unit.

27. An aircraft inspection support method comprising:

capturing a measurement information image displayed on a measurement instrument-side display unit of a specific measurement instrument associated with a model of an aircraft or an inspection target of an aircraft component, the measurement instrument-side display unit being configured to display measurement information on the inspection target; and

displaying the measurement information image by an operation-side display unit so as to be visible to an inspection operator who is performing an inspection operation near the inspection target.

28. The aircraft inspection support method as recited in claim 27, further comprising:

acquiring an inspection pass/fail determination result related to the inspection target based on a measurement result of the measurement instrument-side display unit by the inspection operator;

associating the measurement information image and the inspection pass/fail determination result; and

storing the measurement information image and the inspection pass/fail determination result associated with each other.

29. The aircraft inspection support method as recited in claim 28, further comprising:

transmitting information on the measurement information image and the inspection pass/fail determination result associated with each other from the aircraft inspection support device to the server device; and

associating the information on an aircraft inspection which has been previously stored in the server device or which are to be stored in the server device after the inspection and the measurement information image and the inspection pass/fail determination result information associated with each other.

30. The aircraft inspection support method as recited in claim 27, further comprising:

receiving an operation for storing the measurement information image by a storage operation unit; and

storing the measurement information image based on an operation received by the storage operation unit.