

CLAIMS

1. An image acquisition device, comprising: a main body structure provided with an image acquisition means and at least two accommodating structures, the at least two accommodating structures comprising a first accommodating structure configured to place a first target object and a second accommodating structure configured to place a second target object, wherein

the first target object is arranged on the first accommodating structure to acquire images, and the image acquisition means has a preliminary recognition function to preliminarily recognize the acquire images,

the first accommodating structure is arranged at a first position of the main body structure, the first position satisfying the condition that the first target object placed on the first accommodating structure is located within acquisition area coverage of the image acquisition means; and

the second accommodating structure is arranged at a second position of the main body structure, the second position satisfying the condition that the second target object placed on the second accommodating structure is located within the acquisition area coverage of the image acquisition means.

2. The image acquisition device according to claim 1, wherein the main body structure is provided with a recess structure, and the image acquisition means is arranged at the bottom of the recess structure.

3. The image acquisition device according to claim 2, wherein an opening of the recess structure faces a first side surface of the main body structure, and the first side surface is provided with the first accommodating structure.

4. The image acquisition device according to claim 3, wherein the first side surface is provided with the first accommodating structure, comprising:

a first hollow structure is provided at a first position on the first side surface

corresponding to the opening of the recess structure, and a slot for fixing the first target object is provided at the periphery of the first hollow structure.

5. The image acquisition device according to claim 3, wherein the second accommodating structure is formed between the first side surface and a plane where the opening of the recess structure is located, wherein a carrier stage for fixing the second target object is provided at the periphery of the opening of the recess structure.

6. The image acquisition device according to claim 2, wherein a light supplement means is provided inside the recess structure.

7. The image acquisition device according to claim 6, wherein a light guide material is provided on a surface of the recess structure.

8. The image acquisition device according to claim 1, wherein a second side surface of the main body structure is provided with a base for fixing the main body structure on a bearing surface.

9. The image acquisition device according to any one of claims 1 to 8, wherein the main body structure is further provided with a control means configured to control the image acquisition means, wherein the control means is a control button or a touch screen.

10. The image acquisition device according to any one of claims 1 to 8, wherein the main body structure is further provided with a communication interface configured to enable the image acquisition device to communicate with an external device, and the communication port at least comprises a Universal Serial Bus (USB) interface.