CLAIMS

1. A digital code recognition system recognizing a digital code (31) formed on a side surface of a tray (20) on which a plurality of devices (10) are loaded by being installed in a device handler that receives the devices (10) by using the tray (20) and performs at least one of inspection and classification on the devices (10), and recognizing the digital code (31) of the tray (20) located in at least one digital code recognition area (RS) set on a movement route of the tray (20) in the device handler, the digital code recognition system comprising:

a light path change unit (100) installed at a location facing the digital code (31) formed on the side surface of the tray (30) to change a light transmission path (L) of an image of the digital code (31); and

an image acquisition unit (200) recognizing the image of the digital code (31) transmitted by the light path change unit (100),

wherein the image acquisition unit (200) is located above the tray (20) located in the digital code recognition area (RS), and

the light path change unit (100) includes a first reflecting member (110) for changing the light transmission path (L) upward from the side surface of the tray (30), and a second reflecting member (120) for changing the light transmission path (L) changed by the first reflecting member (110) to the image acquisition unit (200).

2. The digital code recognition system of claim 1, further comprising an illuminating unit (130) for illuminating the digital code (31).

3. The digital code recognition system of claim 2, wherein the illuminating unit (130) is installed to face the digital code (31) formed on the side surface of the tray (30).

4. The digital code recognition system of claim 2, wherein the light path change unit (100) and the illuminating unit (130) constitute one module.

5. The digital code recognition system of any one of claims 1 to 4, wherein the digital code (31) is at least one of a barcode and a QR code.

6. A device handler receiving a plurality of devices (10) by using a tray (20) on which the devices (10) are loaded and performing at least one of inspection and classification on the devices (10), the device handler comprising:

the digital code recognition system of any one of claims 1 to 4, the digital code recognition system recognizing a digital code (31) of the tray (20) located in at least one digital code recognition area (RS) set on a movement route of the tray (20).

7. The device handler of claim 6, further comprising:

a loading unit loading the tray (20) on which the devices (10) on which at least one of inspection and classification is to be performed are loaded; and

an unloading unit unloading the tray (20) on which the devices (10) on which at least one of inspection and classification has been performed are loaded,

wherein the digital code recognition area (RS) is set in at least one of the loading unit and the unloading unit.

8. The device handler of claim 7, wherein the unloading unit uses the tray (20) emptied in the loading unit.

9. The device handler of claim 6, wherein the digital code (31) is at least one of a barcode and a QR code.