CLAIMS

1. An electronic device configured to be connected to an external display device, the electronic device being configured to output image data to the external display device, the electronic device comprising:

a resolution retrieval unit configured to retrieve, from the external display device, a first resolution of the external display device;

a ~~resolution~~ determination unit configured to determine whether an aspect ratio of the retrieved first resolution is a predetermined aspect ratio, and the first resolution is greater than or equal to a second resolution of the external display device;

a resolution selecting unit, wherein, in response to determining, by the resolution determination unit, that the aspect ratio of the first resolution is the predetermined aspect ratio, and the first resolution is greater than or equal to the second resolution, the resolution selecting unit is configured to select the second resolution, and wherein, in response to determining, by the resolution determination unit, that the aspect ratio of the first resolution is the predetermined aspect ratio, and the first resolution is less than the second resolution, the resolution selecting unit is configured to select ~~the first~~a third resolution; and

a resolution changing unit configured to change a resolution of the external display device to one of the ~~first~~second resolution and the ~~second~~third resolution that is selected by the resolution selecting unit.

2. The electronic device according to claim 1,

wherein the ~~resolution~~ determination unit is configured to determine whether an aspect ratio of the first resolution is a standard aspect ratio of ~~a standard~~the third resolution, prior to determining whether the first resolution is greater than or equal to the second resolution, and

wherein, when the ~~resolution~~ determination unit determines that the aspect ratio of the first resolution is the standard aspect ratio, the resolution selecting unit selects the ~~standard~~third resolution as the first resolution.

3. The electronic device according to claim 1,

wherein the ~~resolution~~ determination unit is configured to determine whether the first resolution is a wide resolution, the wide resolution being different from the predetermined aspect ratio of the second resolution, prior to determining whether the first resolution is greater than or equal to the second resolution, and

wherein, when the ~~resolution~~ determination unit determines that the first resolution is the wide resolution, the resolution selecting unit selects the wide resolution as the first resolution.

4. The electronic device according to claim 1,

wherein the ~~resolution~~ determination unit is configured to determine whether an aspect ratio of the first resolution is a standard aspect ratio of ~~a standard~~the third resolution, prior to determining whether the first resolution is greater than or equal to the second resolution,

wherein, when the ~~resolution~~ determination unit determines that the aspect ratio of the first resolution is the standard aspect ratio, the resolution selecting unit selects the ~~standard~~third resolution as the first resolution,

wherein, when the ~~resolution~~ determination unit determines that the aspect ratio of the first resolution is not the standard aspect ratio, the resolution determination unit is configured to determine whether the ~~recommended~~ first resolution is a wide resolution, the wide resolution being different from the predetermined aspect ratio, and

wherein, when the ~~resolution~~ determination unit determines that the first resolution is the wide resolution, the resolution selecting unit selects the wide resolution as the first resolution.

5. The electronic device according to claim 1, further comprising:

a first resolution retrieval unit configured to retrieve a displayable resolution, the displayable resolution being displayable by the external display device;

a resolution management table reading unit configured to sequentially read one or more data lines included in a resolution management table, wherein each of the data lines includes a ~~third~~ resolution as an element, ~~wherein~~

a second resolution retrieval unit configured to obtain the resolution from the read data line;

a first resolution determination unit configured to determine whether the displayable resolution obtained by the first resolution retrieval unit includes the resolution obtained by the second resolution retrieval unit; and

a first resolution changing unit configured to change, when the first resolution determination unit determines that the displayable resolution includes the resolution obtained by the second resolution retrieval unit, the resolution of the external display device to the resolution obtained by the second resolution retrieval unit;

~~the resolution retrieval unit is configured to obtain the third resolution from the read data line;~~

~~the resolution determination unit is configured to determine whether the first resolution obtained by the resolution retrieval unit includes the third resolution obtained by the resolution retrieval unit; and~~

~~the resolution changing unit is configured to change, when the resolution determination unit determines that the first resolution includes the third resolution, the resolution of the external display device to the third resolution obtained by the resolution retrieval unit,~~

wherein the resolution retrieval unit is configured to operate when the first resolution determination unit determines that the ~~first~~ displayable resolution does not include the ~~third~~ resolution obtained from each of the read data lines by the second resolution retrieval unit.

6. The electronic device according to claim 5,

wherein the second resolution determination unit is configured to determine whether an aspect ratio of the first resolution is a standard aspect ratio of ~~a standard~~ the third resolution, prior to determining whether the first resolution is greater than or equal to the second resolution, and

wherein, when the resolution determination unit determines that the aspect ratio of the first resolution is the standard aspect ratio, the resolution selecting unit selects the ~~standard~~third resolution as the first resolution.

7. The electronic device according to claim 5,

wherein the second resolution determination unit is configured to determine whether the first resolution is a wide resolution, the wide resolution being different from ~~the predetermined~~ a reference aspect ratio of the second resolution, prior to determining whether the first resolution is greater than or equal to the second resolution, and

wherein, when the second resolution determination unit determines that the first resolution is the wide resolution, the resolution selecting unit selects the wide resolution as the first resolution .

8. The electronic device according to claim 5,

wherein the second resolution determination unit is configured to determine whether an aspect ratio of the first resolution is the~~a~~ standard aspect ratio of ~~a standard~~the third resolution, prior to determining whether the first resolution is greater than or equal to the second resolution,

wherein, when the second resolution determination unit determines that the aspect ratio of the first resolution is the standard aspect ratio, the resolution selecting unit selects the ~~standard~~ third resolution as the first resolution,

wherein, when the second resolution determination unit determines that the aspect ratio of the recommended resolution is not the standard aspect ratio, the second resolution determination unit is configured to determine whether the first resolution is a wide resolution, the wide resolution being different from the standard aspect ratio, and

wherein, when the second resolution determination unit determines that the first resolution is the wide resolution, the resolution selecting unit selects the wide resolution as the first resolution.

9. The electronic device according to any one of claims 1 - 8,

wherein the electronic device is a transmission terminal device configured to transmit and receive data of a screen to be shared with another transmission terminal device, and

wherein the transmission terminal device is configured to output the image data to the external display device, and configured to cause the external display device to display the image data.

10. A program for controlling an electronic device, the electronic device being configured to be connected to an external display device and configured to output image data to the external display device, the program causing a computer included in the electronic device to function as:

a resolution retrieval unit configured to retrieve, from the external display device, a first resolution of the external display device;

a ~~resolution~~ determination unit configured to determine whether an aspect ratio of the retrieved first resolution is a predetermined aspect ratio, and the first resolution is greater than or equal to a second resolution of the external display device;

a resolution selecting unit, wherein, in response to determining, by the ~~resolution~~ determination unit, that the aspect ratio of the first resolution is the predetermined aspect ratio, and the first resolution is greater than or equal to the second resolution, the resolution selecting unit is configured to select the second resolution, and wherein, in response to determining, by the resolution determination unit, that the aspect ratio of the first resolution is the predetermined aspect ratio, and the first resolution is less than the second resolution, the resolution selecting unit is configured to select ~~the first~~a third resolution; and

a resolution changing unit configured to change a resolution of the external display device to one of the ~~first~~second resolution and the ~~second~~third resolution that is selected by the resolution selecting unit.

11. A non-transitory computer readable recording medium storing the program according to claim 10.