CLAIMS

1. A wireless connection method, comprising:

establishing, by a wireless transceiving device group, a bidirectional connection to a data source device via a device group identifier, wherein the wireless transceiving device group comprises at least two wireless transceiving devices, the wireless transceiving device group is configured with the device group identifier, and the device group identifier is used for identifying the wireless transceiving device group;

wherein the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier comprises:

establishing, by a first wireless transceiving device in the wireless transceiving device group, a first bidirectional connection to the data source device via the device group identifier;

synchronizing, by the first wireless transceiving device, link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.

2. The wireless connection method according to claim 1, wherein any two wireless transceiving devices in the wireless transceiving device group are connected via a preset physical identifier, wherein the device group identifier and the physical identifier are used in a time-division manner in accordance with a preset air interface protocol.

3. The wireless connection method according to claim 1, before the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier, further comprising:

pairing at least two wireless transceiving devices to form the wireless transceiving device group, and configuring the device group identifier of the wireless transceiving device group.

4. The wireless connection method according to claim 3, wherein the configuring the device group identifier of the wireless transceiving device group comprises:

configuring the device group identifier of the wireless transceiving device group in accordance with a preset addressing rule.

5. The wireless connection method according to claim 3 or 4, after the configuring the device group identifier of the wireless transceiving device group, further comprising:

storing, by each wireless transceiving device in the wireless transceiving device group, the device group identifier.

6. The wireless connection method according to any one of claims 1 to 4, after the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier, further comprising:

pairing a newly added wireless transceiving device with any wireless transceiving device in the wireless transceiving device group; and

synchronizing, by the paired wireless transceiving device, the device group identifier to the newly added wireless transceiving device, so as to add the newly added wireless transceiving device to the wireless transceiving device group.

7. The wireless connection method according to any one of claims 1 to 4, wherein the wireless transceiving devices in the wireless transceiving device group are connected via a wireless link.

8. The wireless connection method according to claim 7, wherein unidirectional or bidirectional data transmission is performed between the wireless transceiving devices in the wireless transceiving device group through the wireless link.

~~9. The wireless connection method according to claim 1, wherein the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier comprises:~~

~~establishing, by a first wireless transceiving device in the wireless transceiving device group, a first bidirectional connection to the data source device via the device group identifier.~~

~~10. The wireless connection method according to claim 9, after the establishing, by the first wireless transceiving device in the wireless transceiving device group, the first bidirectional connection to the data source device via the device group identifier, further comprising:~~

~~synchronizing, by the first wireless transceiving device, link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving~~

~~device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.~~

~~11~~9. The wireless connection method according to any one of claims 1 to 4, after the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier, further comprising:

receiving, by the wireless transceiving device group, data source data of the data source device; and

transmitting, by a wireless transceiving device in the wireless transceiving device group, data to the data source device.

~~12~~10. The wireless connection method according to claim 9~~11~~, wherein the transmitting, by the wireless transceiving device in the wireless transceiving device group, the data to the data source device comprises:

transmitting, by the wireless transceiving device in the wireless transceiving device group, the data to the data source device in accordance with a preset feedback manner.

~~13~~11. The wireless connection method according to claim ~~12~~10, wherein the transmitted data comprises response data for successful reception or response data for failed reception.

~~14~~12. The wireless connection method according to claim ~~10~~1, after the transmitting, by the wireless transceiving device in the wireless transceiving device group, the data to the data source device, further comprising:

confirming, by the first wireless transceiving device and the second wireless transceiving device in the wireless transceiving device group, data information; and

if the second wireless transceiving device fails to receive the data source data, sending, by the second wireless transceiving device, a retransmission request to the first wireless transceiving device to cause the first wireless transceiving device to determine whether to retransmit the data source data to the second wireless transceiving device in accordance with a preset response rule;

or,

if the first wireless transceiving device fails to receive the data source data, sending, by the first wireless transceiving device a retransmission request to the second wireless

transceiving device to cause the second wireless transceiving device to determine whether to retransmit the data source data to the first wireless transceiving device in accordance with the preset response rule.

~~15~~13. The wireless connection method according to claim ~~14~~12, further comprising: increasing, by a wireless transceiving device failing to receive the data source data in the wireless transceiving device group, transmission power.

~~16~~14. The wireless connection method according to any one of claims 1 to 4, after the establishing, by the wireless transceiving device group, the bidirectional connection to the data source device via the device group identifier, further comprising:

synchronizing control data between the wireless transceiving device group and the data source device.

~~17~~15. The wireless connection method according to any one of claims 1 to 4, ~~and 9,~~ wherein the bidirectional connection is a bidirectional connection based on a Bluetooth protocol.

~~18~~16. The wireless connection method according to claim ~~17~~15, wherein the wireless transceiving device is a Bluetooth audio device.

~~19~~17. The wireless connection method according to claim ~~18~~16, wherein the Bluetooth audio device is a Bluetooth earphone or a Bluetooth speaker.

~~20~~18. A wireless transceiving device group, comprising: at least two wireless transceiving devices;

the wireless transceiving device group establishes a bidirectional connection to a data source device via a device group identifier, wherein the wireless transceiving device group is configured with the device group identifier, and the device group identifier is used for identifying the wireless transceiving device group;

wherein a first wireless transceiving device in the wireless transceiving device group establishes a first bidirectional connection to the data source device via the device group identifier;

the first wireless transceiving device synchronizes link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving

device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.

~~21~~19. The wireless transceiving device group according to claim ~~20~~18, wherein any two wireless transceiving devices in the wireless transceiving device group are connected via a preset physical identifier, wherein the device group identifier and the physical identifier are used in a time-division manner in accordance with a preset air interface protocol.

~~22~~20. The wireless transceiving device group according to claim ~~20~~18, wherein at least two wireless transceiving devices are paired to form the wireless transceiving device group, and the device group identifier of the wireless transceiving device group is configured.

~~23~~21. The wireless transceiving device group according to claim ~~22~~20, wherein the wireless transceiving device group is configured with the device group identifier in accordance with a preset addressing rule.

~~24~~22. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23~~, wherein each wireless transceiving device in the wireless transceiving device group stores the device group identifier.

~~25~~23. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23~~, further comprising: a newly added wireless transceiving device;

the newly added wireless transceiving device is paired with any wireless transceiving device in the wireless transceiving device group, wherein paired wireless transceiving device synchronizes the device group identifier to the newly added wireless transceiving device, so as to add the newly added wireless transceiving device to the wireless transceiving device group.

~~26~~24. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23~~, wherein the wireless transceiving devices in the wireless transceiving device group are connected via a wireless link.

~~27~~25. The wireless transceiving device group according to claim ~~26~~24, wherein unidirectional or bidirectional data transmission is performed between the wireless transceiving devices in the wireless transceiving device group through the wireless link.

~~28. The wireless transceiving device group according to claim 20, wherein a first wireless transceiving device in the wireless transceiving device group establishes a first bidirectional connection to the data source device via the device group identifier.~~

~~29. The wireless transceiving device group according to claim 28, wherein the first wireless transceiving device synchronizes link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.~~

~~30~~26. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23~~, wherein:

a wireless transceiving device in the wireless transceiving device group receives data source data of the data source device; and

the wireless transceiving device in the wireless transceiving device group transmits data to the data source device.

~~31~~27. The wireless transceiving device group according to claim ~~30~~26, wherein the wireless transceiving device in the wireless transceiving device group transmits the data to the data source device in accordance with a preset feedback manner.

~~32~~28. The wireless transceiving device group according to claim ~~31~~27, wherein the transmitted data comprises response data for successful reception or response data for failed reception.

~~33~~29. The wireless transceiving device group according to claim ~~29~~18, wherein the first wireless transceiving device and the second wireless transceiving device in the wireless transceiving device group confirm data information; and

if the second wireless transceiving device fails to receive the data source data, the second wireless transceiving device sends a retransmission request to the first wireless transceiving device to cause the first wireless transceiving device to determine whether to retransmit the data source data to the second wireless transceiving device in accordance with a preset response rule;

or,

if the first wireless transceiving device fails to receive the data source data, the first wireless transceiving device sends a retransmission request to the second wireless transceiving device to cause the second wireless transceiving device to determine whether to retransmit the data source data to the first wireless transceiving device in accordance with the preset response rule.

~~34~~30. The wireless transceiving device group according to claim ~~33~~29, wherein a wireless transceiving device failing to receive the data source data in the wireless transceiving device group increases transmission power.

~~35~~31. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23~~, wherein the wireless transceiving device group and the data source device synchronize control data.

~~36~~32. The wireless transceiving device group according to any one of claims 18 to 21~~20 to 23, and 28~~, wherein the bidirectional connection is a bidirectional connection based on a Bluetooth protocol.

~~37~~33. The wireless transceiving device group according to claim ~~36~~32, wherein the wireless transceiving device is a Bluetooth audio device.

~~38~~34. The wireless transceiving device group according to claim ~~37~~33, wherein the Bluetooth audio device is a Bluetooth earphone or a Bluetooth speaker.

~~39~~35. A wireless transceiving system, comprising: a data source device and a wireless transceiving device group;

the wireless transceiving device group comprises at least two wireless transceiving devices;

the wireless transceiving device group establishes a bidirectional connection to the data source device via a device group identifier, wherein the wireless transceiving device group is configured with the device group identifier, and the device group identifier is used for identifying the wireless transceiving device group;

wherein a first wireless transceiving device in the wireless transceiving device group establishes a first bidirectional connection to the data source device via the device group identifier;

the first wireless transceiving device synchronizes link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.

~~40~~36. The wireless transceiving system according to claim ~~39~~35, wherein any two wireless transceiving devices in the wireless transceiving device group are connected via a preset physical identifier, wherein the device group identifier and the physical identifier are used in a time-division manner in accordance with a preset air interface protocol.

~~41~~37. The wireless transceiving system according to claim ~~39~~35, wherein at least two wireless transceiving devices are paired to form the wireless transceiving device group, and the device group identifier of the wireless transceiving device group is configured.

~~42~~38. The wireless transceiving system according to claim ~~41~~37, wherein the wireless transceiving device group is configured with the device group identifier in accordance with a preset addressing rule.

~~43~~39. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42~~, wherein each wireless transceiving device in the wireless transceiving device group stores the device group identifier.

~~44~~40. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42~~, further comprising: a newly added wireless transceiving device;

the newly added wireless transceiving device is paired with any wireless transceiving device in the wireless transceiving device group, wherein paired wireless transceiving device synchronizes the device group identifier to the newly added wireless transceiving device, so as to add the newly added wireless transceiving device to the wireless transceiving device group.

~~45~~41. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42~~, wherein the wireless transceiving devices in the wireless transceiving device group are connected via a wireless link.

~~46~~42. The wireless transceiving system according to claim ~~45~~41, wherein unidirectional or bidirectional data transmission is performed between the wireless transceiving devices in the wireless transceiving device group through the wireless link.

~~47. The wireless transceiving system according to claim 39, wherein a first wireless transceiving device in the wireless transceiving device group establishes a first bidirectional connection to the data source device via the device group identifier.~~

~~48. The wireless transceiving system according to claim 47, wherein the first wireless transceiving device synchronizes link information of the first bidirectional connection to a second wireless transceiving device in the wireless transceiving device group to cause the second wireless transceiving device to establish a second bidirectional connection to the data source device.~~

~~49~~43. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42~~, wherein a wireless transceiving device in the wireless transceiving device group receives data source data of the data source device; and

the wireless transceiving device in the wireless transceiving device group transmits data to the data source device.

~~50~~44. The wireless transceiving system according to claim ~~49~~43, wherein the wireless transceiving device in the wireless transceiving device group transmits the data to the data source device in accordance with a preset feedback manner.

~~51~~45. The wireless transceiving system according to claim ~~50~~44, wherein the transmitted data comprises response data for successful reception or response data for failed reception.

~~52~~46. The wireless transceiving system according to claim ~~48~~35, wherein the first wireless transceiving device and the second wireless transceiving device in the wireless transceiving device group confirm data information; and

if the second wireless transceiving device fails to receive the data source data, the second wireless transceiving device sends a retransmission request to the first wireless transceiving device to cause the first wireless transceiving device to determine whether to retransmit the data source data to the second wireless transceiving device in accordance with a preset response rule;

or,

if the first wireless transceiving device fails to receive the data source data, the first wireless transceiving device sends a retransmission request to the second wireless transceiving device to cause the second wireless transceiving device to determine whether to retransmit the data source data to the first wireless transceiving device in accordance with the preset response rule.

~~53~~47. The wireless transceiving system according to claim ~~52~~46, wherein a wireless transceiving device failing to receive the data source data in the wireless transceiving device group increases transmission power.

~~54~~48. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42~~, wherein the wireless transceiving device group and the data source device synchronize control data.

~~55~~49. The wireless transceiving system according to any one of claims 35 to 38~~39 to 42 and 48~~, wherein the bidirectional connection is a bidirectional connection based on a Bluetooth protocol.

~~56~~50. The wireless transceiving system according to claim ~~55~~49, wherein the wireless transceiving device is a Bluetooth audio device.

~~57~~51. The wireless transceiving system according to claim ~~56~~50, wherein the Bluetooth audio device is a Bluetooth earphone or a Bluetooth speaker.

~~58~~52. A computer-readable storage medium, comprising: a computer program stored thereon, wherein when the program is executed by a processor, the wireless connection method according to any one of claims 1 to ~~19~~ 17 is implemented.