WHAT IS CLAIMED IS:

1. A method for receiving a downlink control channel, applied in a terminal, the method comprising:

determining a target receiving manner for receiving the downlink control channel; and

receiving the downlink control channel transmitted by a base station according to the target receiving manner;

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises at least one of:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.

2. The method according to claim 1, wherein the target location comprises:

an offset of the downlink control channel with respect to target information, wherein the target information is information corresponding to a channel or an information block received by the terminal before receiving the downlink control channel; or

a preset location corresponding to the downlink control channel.

3. A method for transmitting a downlink control channel from a base station to the terminal in the method for receiving a downlink control channel according to claim 1 or 2, the method comprising:

transmitting, by the base station, a target receiving manner for receiving the downlink control channel to the terminal; and

transmitting, by the base station, the downlink control channel to the terminal,

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises at least one of:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.

4. The method according to claim 3, wherein the target location comprises:

an offset of the downlink control channel with respect to the target information, wherein the target information is information corresponding to a channel or an information block received by the terminal before receiving the downlink control channel; or

a preset location corresponding to the downlink control channel.

5. An apparatus for receiving a downlink control channel, applied in a terminal, the apparatus comprising:

a receiving manner determining module, configured to determine a target receiving manner for receiving the downlink control channel; and

a channel receiving module, configured to receive the downlink control channel transmitted by the base station according to the target receiving manner,

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.

6. The apparatus according to claim 5, wherein the target location comprises:

an offset of the downlink control channel with respect to target information, wherein the target information is information corresponding to a channel or an information block received by the terminal before receiving the downlink control channel; or

a preset location corresponding to the downlink control channel.

7. A system with an apparatus for transmitting a downlink control channel and an apparatus for receiving a downlink control channel, wherein the apparatus for transmitting a downlink control channel is applied in a base station, and comprises:

a receiving manner transmitting module, configured to transmit a target receiving manner for receiving the downlink control channel to a terminal; and

a channel transmitting module, configured to transmit the downlink control channel to the terminal, so that the terminal receives the downlink control channel according to the target receiving manner;

wherein the apparatus for receiving a downlink control channel is applied in a terminal, and comprises:

a receiving manner determining module, configured to determine a target receiving manner for receiving the downlink control channel; and

a channel receiving module, configured to receive the downlink control channel transmitted by the base station according to the target receiving manner,

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.

8. The system according to claim 7, wherein the target location comprises:

an offset of the downlink control channel with respect to the target information, wherein the target information is information corresponding to a channel or an information block received by the terminal before receiving the downlink control channel; or

a preset location corresponding to the downlink control channel.

9. A computer readable storage medium storing a computer program for performing the method for receiving a downlink control channel according to claim 1 or 2.

10. A computer readable storage medium storing a computer program for performing the method for transmitting a downlink control channel according to claim 3 or 4.

11. An apparatus for receiving a downlink control channel, applied in a terminal, the apparatus comprising:

a processor; and

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

determine a target receiving manner for receiving the downlink control channel; and

receive the downlink control channel transmitted by a base station according to the target receiving manner,

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.

12. An apparatus for transmitting a downlink control channel, applied in a base station, the apparatus comprising:

a processor;

a memory for storing instructions executable by the processor;

wherein the processor is configured to:

transmit a target receiving manner for receiving the downlink control channel to a terminal; and

transmit the downlink control channel to the terminal, so that the terminal receives the downlink control channel according to the target receiving manner,

wherein the target receiving manner comprises searching for a target search space corresponding to the downlink control channel,

wherein the target search space comprises possible location information of the downlink control channel and aggregation degree information of the downlink control channel, and the terminal searches according to the aggregation degree information at a position indicated by the possible location information of the downlink control channel,

wherein the target receiving manner comprises:

receiving information about a target location of the downlink control channel corresponding to a time domain resource and a frequency domain resource; or

receiving a target beam for transmitting the downlink control channel.