What is Claimed is:

1. A game system for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling game including a plurality of game results and a payout odds set, the payout odds set including a plurality of payout odds corresponding to the plurality of game results, in each round of the gambling game, each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the game system including:

a display unit, displaying a game screen of the gambling game, and the game screen including a plurality of betting areas corresponding to the plurality of game results;

an input unit, provided for the player to bet on the plurality of betting areas to generate a bet signal;

an odds processing unit, generating at least one variable odds set corresponding to at least one of the plurality of payout odds, each of the at least one variable odds set including a plurality of variable odds, and each of the at least one variable odds having a probability to be selected, wherein according to the probability to be selected, the odds processing unit selects one of the at least one variable odds from the at least one variable odds set to replace the payout odds correspondingly to generate an adjusted payout odds set, wherein the display unit displays the adjusted payout odds set in the betting area correspondingly, and wherein the at least one variable odds set meets a plurality of

requirements that numbers of the variable odds are more than two, and numerical values of parts of the variable odds are lower than numerical values of the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable odds, meets a specified condition;

a game result generating unit, selecting one of the plurality of game results according to the probability of occurrence in each round of the gambling game as a round result thereof;

a payout unit, paying out according to the bet signal, the round result, and the adjusted payout odds set; and

a game processing unit, connected to the display unit, the input unit, the odds processing unit, the game result generating unit and the payout unit, and the game processing unit operating the display unit, the input unit, the odds processing unit, the game result generating unit and the payout unit to allow the gambling game to perform the at least one round of the gambling game.

2. The game system for providing variable odds as claimed in claim 1, wherein the specified condition is that the variable value of the rate of RTP is a minimum.

3. The game system for providing variable odds as claimed in claim 1, wherein the input unit allows the player to selectively input an upper limit value, a lower limit value, or amount of the at least one variable odds, and allows the odds processing unit to generate the at least one variable odds set accordingly.

4. The game system for providing variable odds as claimed in claim

3, wherein the odds processing unit generates the at least one variable odds set by a mathematical trial and error method.

5. The game system for providing variable odds as claimed in claim 1, wherein the game processing unit further determines whether the odds processing unit generates the at least one variable odds set according to a preset condition.

6. A game system for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling game including a plurality of game results and a payout odds set, the payout odds set including a plurality of payout odds corresponding to the plurality of game results, in each round of the gambling game, each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the game system including:

a display unit, displaying a game screen of the gambling game, and the game screen including a plurality of betting areas corresponding to the plurality of game results;

an input unit, provided for the player to bet on the plurality of betting areas to generate a bet signal;

an odds processing unit, providing a plurality of odds tables for the player selecting and enabling one of the plurality of odds tables, each of the plurality of odds tables including a variable odds set corresponding to the payout odds, each of the variable odds sets including a plurality of variable odds, and each of the variable odds

having a probability to be selected, wherein according to the probability to be selected, the odds processing unit selects one of the plurality of variable odds from each one of the variable odds sets to replace the payout odds correspondingly to generate an adjusted payout odds set, wherein the display unit displays the adjusted payout odds set in the betting area correspondingly, and wherein each of the plurality of odds tables separately meeting a plurality of requirements that numerical values of parts of the variable odds in each of the variable odds sets of each of the odds tables are lower than numerical values of the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable odds, meets a specified condition;

a game result generating unit, selecting one of the plurality of game results according to the probability of occurrence in each round of the gambling game as a round result thereof;

a payout unit, paying out according to the bet signal, the round result, and the adjusted payout odds set; and

a game processing unit, connected to the display unit, the odds processing unit, the input unit, the game result generating unit and the payout unit, and the game processing unit operating the display unit, the odds processing unit, the input unit, the game result generating unit and the payout unit to allow the gambling game to perform the at least one round of the gambling game.

7. The game system for providing variable odds as claimed in claim 6, wherein the specified condition is that the variable value of the rate of RTP is a minimum.

8. The game system for providing variable odds as claimed in claim 6, wherein the odds processing unit further provides a basic odds table, which lists the payout odds and is included in a range for the player choosing to enable.

9. A game system for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling game including a plurality of game results and a payout odds set, the payout odds set including a plurality of payout odds corresponding to the plurality of game results, in each round of the gambling game, each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the game system including:

a display unit, displaying a game screen of the gambling game, and the game screen including a plurality of betting areas corresponding to the plurality of game results;

an input unit, provided for the player to bet on the plurality of betting areas to generate a bet signal;

an odds processing unit, dividing the plurality of payout odds into at least one set according to numerical values thereof, and the at least one set including a plurality of variable odds sets, wherein one of the at least one set is selected by the player to be enabled, each of the variable odds sets including a plurality of variable odds, and each of the variable odds having a probability to be selected, wherein after enabling the selected variable odds set, the odds processing unit according

to the probability to be selected selects one of the plurality of variable odds to replace the at least one payout odds of a same set correspondingly to generate an adjusted payout odds set, wherein the display unit displays the adjusted payout odds set in the betting area correspondingly, and wherein each of the variable odds sets separately meets a plurality of requirements that numerical values of parts of the variable odds of each of the variable odds sets are lower than the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable odds, meets a specified condition;

a game result generating unit, selecting one of the plurality of game results according to the probability of occurrence in each round of the gambling game as a round result;

a payout unit, paying out according to the bet signal, the round result, and the adjusted payout odds set; and

a game processing unit, connected to the display unit, the input unit, the odds processing unit, the game result generating unit and the payout unit, and the game processing unit operating the display unit, the input unit, the odds processing unit, the game result generating unit and the payout unit to allow the gambling game to perform the at least one round of the gambling game.

10. The game system for providing variable odds as claimed in claim 9, wherein the specified condition is that the variable value of the rate of RTP is a minimum.

11. A method for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling game including a plurality of game results and a payout odds set, and

a display unit displaying a game screen of the gambling game, the game screen including a plurality of betting areas corresponding to the plurality of game results, the payout odds set including a plurality of payout odds corresponding to the plurality of game results, and in each of the rounds of game, each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the method of the gambling game including:

a betting step, generating a bet signal via an input unit through the player betting on the betting areas;

a variable odds selecting step, generating at least one variable odds set corresponding to at least one of the plurality of payout odds by an odds processing unit, wherein the at least one variable odds set includes a plurality of variable odds respectively, and each of the at least one variable odds has a probability to be selected, and wherein according to the probability to be selected, the odds processing unit selects one of the at least one variable odds from each one of the variable odds sets to replace the payout odds correspondingly to generate an adjusted payout odds set, and wherein the at least one variable odds set meets a plurality of requirements that numbers of all the variable odds are more than two, and numerical values of parts of the variable odds are lower than numerical values of the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable

odds, meets a specified condition;

an odds updating step, displaying the adjusted payout odds set on the display unit after completing the betting step and the variable odds selecting step;

a game result generating step, selecting one of the plurality of game results according to the probability of occurrence by a game result generating unit in each round of the gambling game as a round result for each round of the gambling game; and

a payout step, paying out according to the bet signal, the round result, and the adjusted payout odds set by a payout unit.

12. The method for providing variable odds as claimed in claim 11, wherein the specified condition is that the variable value of the rate of RTP is a minimum.

13. The method for providing variable odds as claimed in claim 11, wherein the input unit allows the player to selectively input an upper limit value, a lower limit value, or amount of the at least one variable odds, and allows the odds processing unit to generate the at least one variable odds set accordingly.

14. The method for providing variable odds as claimed in claim 13, wherein the odds processing unit generates the at least one variable odds set by a mathematical trial and error method.

15. The method for providing variable odds as claimed in claim 11, wherein further determining whether to perform the variable odds selecting step according to a preset condition.

16. A method for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling

game including a plurality of game results and a payout odds set, and a display unit displaying a game screen of the gambling game, the game screen including a plurality of betting areas corresponding to the plurality of game results, the payout odds set including a plurality of payout odds corresponding to the plurality of game results, and in each of the rounds of game each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the method of the gambling game including:

an odds selecting step, providing a plurality of odds tables from an odds processing unit for the player selecting and enabling one of the plurality of odds tables, each of the plurality of odds tables including the variable odds set corresponding to the payout odds, each of the variable odds sets including a plurality of variable odds, and each of the variable odds having a probability to be selected, and wherein each of the plurality of odds tables separately meeting a plurality of requirements that numerical values of parts of the variable odds in each of the variable odds sets of each of the odds tables are lower than numerical values of the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable odds, meets a specified condition;

a betting step, generating a bet signal via an input unit through the player betting on the betting areas;

a variable odds selecting step, selecting one of the at least one variable odds in each of the variable odds sets of the enabled odds

table according to the probability to be selected through the odds processing unit, and replacing the corresponding payout odds to generate an adjusted payout odds set for the gambling game;

an odds updating step, displaying the adjusted payout odds set in the betting area on the display unit after completing the betting step and the variable odds selecting step;

a game result generating step, selecting one of the plurality of game results according to the probability of occurrence by a game result generating unit in each round of the gambling game as a round result for each round of the gambling game; and

a payout step, paying out according to the bet signal, the round result, and the adjusted payout odds set by a payout unit.

17. The method for providing variable odds as claimed in claim 16, wherein the specified condition is that the variable value of the rate of RTP is a minimum.

18. The method for providing variable odds as claimed in claim 16, wherein in the odds selecting step, the odds processing unit further provides a basic odds table, which lists the payout odds and is included in a range for the player choosing to enable.

19. A method for providing variable odds, which is provided for a player to play at least one round of a gambling game, the gambling game including a plurality of game results and a payout odds set, and a display unit displaying a game screen of the gambling game, the game screen including a plurality of betting areas corresponding to the plurality of game results, the payout odds set including a plurality

of payout odds corresponding to the plurality of game results, and in each of the rounds of game each of the plurality of game results including a probability of occurrence, and a rate of Return to Player (RTP) of the gambling game calculated according to the probability of occurrence, the method of the gambling game including:

an odds selecting step, dividing the plurality of payout odds into at least one set according to numerical values thereof by the odds processing unit,

wherein the at least one set includes a plurality of variable odds sets, one of the at least one set is selected by the player to be enabled, wherein each of the variable odds sets includes a variable odds, and each of the variable odds has a probability to be selected, and wherein each of the variable odds sets separately meets a plurality of requirements that numerical values of parts of the variable odds of each of the variable odds sets are lower than the corresponding payout odds; and wherein a variable value of the rate of RTP calculated according to the variable odds, meets a specified condition;

a betting step, generating a bet signal via an input unit through the player betting on the betting areas;

a variable odds selecting step, selecting one of the variable odds according to the probability to be selected through the odds processing unit, after enabling the selected variable odds set, and replacing the at least one payout odds of a same set respectively to generate an adjusted payout odds set for the gambling game;

an odds updating step, displaying the adjusted payout odds set in the betting area on the display unit after completing the betting

step and the variable odds selecting step;

a game result generating step, selecting one of the plurality of game results according to the probability of occurrence by a game result generating unit in each round of the gambling game as a round result for each round of the gambling game; and

a payout step, paying out according to the bet signal, the round result, and the adjusted payout odds set by a payout unit.

20. The method for providing variable odds as claimed in claim 19, wherein the specified condition is that the variable value of the rate of RTP is a minimum.