

WHAT IS BEING CLAIMED:

1. A method for regulating light emitting diode (LED) of display device that consists of:
providing a multitude of LEDs, each composed of a multitude of red LEDs, a
5 multitude of green LEDs and a multitude of blue LEDs;
establishing a communication protocol to output corresponding driving current to
drive the LEDs emitting light, the communication protocol corresponding to a binary
coding, each binary coding respectively corresponding to the LEDs having different
light emitting colors;

10 allowing a light-emitting brightness of the blue LED to be 10% brightness during
white balance while simultaneously lighting the red LED, the green LED and the blue
LED to achieve the brightness at white balance, where if the red LED and the green
LED are at non-lighting state, a light-emitting brightness of the blue LED is further
enhanced to improve display effect, wherein, if the binary three-bit coding is "001",
15 then the red LED and the green LED are retained at non-lighting stated (0cd) to
display pure blue images, and the light-emitting brightness of the blue LED is
increased to 120% the brightness emitted at white balance.

2. The method for regulating light emitting diode (LED) of display device of claim 1,
where if the binary coding is a binary three-bit coding and the binary three-bit coding
20 is "000", the red LED, the green LED and the blue LED remain unlit.

~~3. The method for regulating light emitting diode (LED) of display device of claim 1,~~
~~where if the binary three bit coding is "001", then the red LED and the green LED are~~
~~retained at non-lighting stated (0cd) to display pure blue images, and the light-~~
~~emitting brightness of the blue LED is increased to 120% the brightness emitted at~~
25 ~~white balance.~~

~~4.3.~~The method for regulating light emitting diode (LED) of display device of claim 1,

where if the binary coding is the binary three-bit coding and the binary three-bit coding is “010”, the red LED and the blue LED remain unlit, and the light-emitting brightness of the green LED equals the emitted brightness during white balance.

~~5.4.~~5.4.The method for regulating light emitting diode (LED) of display device of claim 1,

where if the binary coding is the binary three-bit coding and the binary three-bit coding is “011”, the red LED remains unlit, and the light-emitting brightness of the green LED and the light-emitting brightness of the blue LED equal the emitted brightness during white balance.

~~6.5.~~6.5.The method for regulating light emitting diode (LED) of display device of claim 1,

where if the binary coding is the binary three-bit coding and the binary three-bit coding is “100”, the green LED and the blue LED are retained at non-lighting state, and the light-emitting brightness of the red LED equals the emitted brightness during white balance.

~~7.6.~~7.6.The method for regulating light emitting diode (LED) of display device of claim 1,

when the binary coding is the binary three-bit coding and the binary three-bit coding is “101”, the green LED remains unlit, and the light-emitting brightness of the red LED and the light-emitting brightness of the blue LED equal the emitted brightness during white balance.

~~8.7.~~8.7.The method for regulating light emitting diode (LED) of display device of claim 1,

where if the binary coding is the binary three-bit coding and the binary three-bit coding is “110”, the blue LED remains unlit, and the light-emitting brightness of the red LED and the light-emitting brightness of the green LED equal the emitted brightness during white balance.

~~9.8.~~9.8.The method for regulating light emitting diode (LED) of display device of claim 1,

where if the binary coding is the binary three-bit coding and the binary three-bit

coding is “111”, the light-emitting brightness of the red LED, the light-emitting brightness of the blue LED and the light-emitting brightness of the green LED equal the emitted brightness during white balance, and the displayed color is white.

10.9._____The method for regulating light emitting diode (LED) of display device of claim 1, wherein the light-emitting brightnesses of the red LED, the green LED and the blue LED can be controlled by pulse width modulation.

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