CLAIMS

What is claimed is:

1. An electronic apparatus, comprising:

a display comprising a plurality of pixels including a first pixel and a second pixel;

a first element above said first pixel, wherein said first element provides visual effect on light emitted from said first pixel; and

an operation controller for selectively turning on or off said first pixel and said second pixel, wherein said operation controller comprises:

an idle mode processing module for operating an idle mode by turning off both said first pixel and said second pixel;

a normal mode processing module for operating a normal mode by turning on both said first pixel and said second pixel;

a timing mode processing module for operating a timing mode by turning on said first pixel and turning off said second pixel; and

a determination module for receiving and determining an instruction indicating which one of said idle mode, said normal mode, and said timing mode to be executed.

2. The electronic apparatus of claim 1, wherein said first element is a jewelry or a fine stone.

3. The electronic apparatus of claim 1, wherein said display is a light emitting diode (LED) display, an organic LED display, or a micro LED display.

4. The electronic apparatus of claim 1, wherein said operation controller turns on said first pixel according to a parameter of brightness, color, blinking frequency, or a combination thereof.

5. The electronic apparatus of claim 1, further comprising:

a second element; and

a third pixel under said second element;

wherein said operation controller turns on pixels between said first pixel and said third pixel under said timing mode.

6. The electronic apparatus of claim 5, wherein said operation controller turns on pixels sequentially back and forth between said first pixel and said third pixel under said timing mode.

7. The electronic apparatus of claim 5, wherein said operation

controller turns on pixels with different colors or brightness between said first pixel and said third pixel under said timing mode.

8. The electronic apparatus of claim 1, further comprising:

a second element; and

a third pixel;

wherein said operation controller turns on said first pixel for indicating hours with a first brightness, a first color, or a first blinking frequency, and turning on said third pixel for indicating minutes with a second brightness, a second color, or a second blinking frequency.

9. The electronic apparatus of claim 8, wherein said third pixel is under said second element.

10. The electronic apparatus of claim 1, wherein said display further comprises a display controller and an element controller;

wherein said display controller controls all pixels, and said element controller for controlling said first pixel; and

wherein said display controller is deactivated and the element controller is activated under a first mode, and the display

controller is activated and the element controller is deactivated under a second mode.

11. The electronic apparatus of claim 1, further comprising a transparent cover layer on said display, wherein said first element is positioned on said transparent cover layer.

12. The electronic apparatus of claim 1, further comprising a transparent cover layer on said display, wherein said first element is embedded within said transparent cover layer.

13. A method for operating an electronic apparatus comprising a plurality of pixels including a first pixel and a second pixel, wherein said first pixel is under a first element, the method comprising:

operating said electronic apparatus in an idle mode by turning off both said first pixel and said second pixel;

operating said electronic apparatus in a normal mode by turning on both said first pixel and said second pixel;

operating said electronic apparatus in a timing mode by turning on said first pixel and turning off said second pixel; and

receiving and determining an instruction by determination

module, wherein said instruction indicates which one of said idle mode, said normal mode, and said timing mode to be executed;

wherein said first element provides visual effect on light emitted from said first pixel.

14. The method of claim 13, wherein said first pixel and said second pixel are turned on according to a parameter of brightness, color, blinking frequency, or a combination thereof.

15. The method of claim 14, wherein said electronic apparatus further comprises a second element and a third pixel under said second element, and the method further comprises:

turning on pixels between said first pixel and said third pixel under said timing mode.

16. The method of claim 15, further comprising:

turning on pixels sequentially back and forth between said first pixel and said third pixel under said timing mode.

17. The method of claim 15, further comprising:

turning on pixels with different colors or brightness between said first pixel and said third pixel under said timing mode.

18. The method of claim 14, wherein said electronic apparatus further comprises a second element and a third pixel, and the method further comprises:

turning on said first pixel for indicating hours with a first brightness, a first color, or a first blinking frequency, and turning on said third pixel for indicating minutes with a second brightness, a second color, or a second blinking frequency.

19. The method of claim 18, wherein said third pixel is under said second element.