WHAT IS CLAIMED IS:

1. A light emitting diode (LED) traffic information billboard device, erected on a road for reminding a pedestrian or an approaching car to pay attention to the current traffic signal, comprising a light source module and a secondary optical element, and the light source module including a plurality of LEDs and a substrate, and the LEDs being arranged in a matrix on the substrate, characterized in that: the secondary optical element is installed on the LEDs, and all lights emitted from the LEDs pass that the secondary optical element to produce a deflected beam, and the deflected beam is concentrated and projected at the pedestrian or the approaching car;

the secondary optical element is a lens, a reflecting cover or a refractive plate, therein the lens includes a lens body, and the lens body includes a light exit surface, a reflecting curved surface and a light incident surface, and the light exit surface is an asymmetrical surface with a protruding end to form a bevel surface, and the reflecting curved surface is formed by a plurality of surface points, and a side edge of the reflecting curved surface is coupled to the light exit surface, and the other side edge of the reflecting curved surface is coupled to the light incident surface, and the light incident surface has a containing space concavely formed thereon and provided for containing the LEDs; the refractive plate is installed on the LEDs, such that the lights emitted from the LEDs are passed through the refractive plate and reflected to produce the deflected beam, and the deflected beam is a polarized light beam; the reflecting cover is covered onto the LED, so that the lights emitted from the LEDs are reflected from the reflecting cover to form the deflected beam with the deflection angle.

~~2. The LED traffic information billboard device of claim 1, wherein the center of the light incident surface is defined as an origin of three-dimensional coordinates, and two lines intersecting with each other at the center are defined as the X-axis and Y-axis respectively, and the lens body is situated on a plane of the X- Z axis coordinates, and the reflecting curved surface and the light incident surface are mirror symmetric along the Y-axis.~~

~~3.~~ 1. A light emitting diode (LED) traffic information billboard device, erected on a road for reminding a pedestrian or an approaching car to pay attention to the current traffic signal, comprising a light source module and a secondary optical element, and the light source module including a plurality of LEDs and a substrate, and the LEDs being arranged in a matrix on the substrate, characterized in that: the secondary optical element is installed on the LEDs, and all lights emitted from the LEDs pass that the secondary optical element to produce a deflected beam, and the deflected beam is concentrated and projected at the pedestrian or the approaching car;

wherein the secondary optical element is a lens, a reflecting cover or a refractive plate, therein the lens includes a lens body, and the lens body includes a light exit surface, a reflecting curved surface and a light incident surface, and the light exit surface is an asymmetrical surface with a protruding end to form a bevel surface, and the reflecting curved surface is formed by a plurality of surface points, and a side edge of the reflecting curved surface is coupled to the light exit surface, and the other side edge of the reflecting curved surface is coupled to the light incident surface, and the light incident surface has a containing space concavely formed thereon and provided for containing the LEDs; the refractive plate is installed on

the LEDs, such that the lights emitted from the LEDs are passed through the refractive plate and reflected to produce the deflected beam, and the deflected beam is a polarized light beam; the reflecting cover is covered onto the LED, so that the lights emitted from the LEDs are reflected from the reflecting cover to form the deflected beam with the deflection angle~~.~~;

~~The LED traffic information billboard device of claim 1,~~ wherein the center of the light incident surface is defined as an origin of three-dimensional coordinates, and two lines intersecting with each other at the center are defined as the X-axis and Y-axis respectively, and the lens body is situated on a plane of the X- Z axis coordinates, and the reflecting curved surface and the light incident surface are mirror symmetric along the Y-axis~~.~~;

wherein the LED traffic information billboard device of claim 1, wherein the lens further comprises a snap portion disposed on a side of the light exit surface for limiting the position of the lens and fixing the lens.

~~4.~~ 2. The LED traffic information billboard device of claim 1, wherein the lens body has the containing space concavely formed at the light incident surface and having a depth of 1.04 centimeter.

~~5.~~ 3. The LED traffic information billboard device of claim 1, wherein the lens body has the containing space concavely formed at the light incident surface and having an opening diameter equal to 2.02 centimeters.