WHAT IS CLAIMED IS:

1. A road simulation test apparatus for a vehicle cab, comprising:

a main body structure (1), an external rearview component (2), a directional structure (3), and a control box (4), wherein the main body structure (1) is detachably mounted in a cab and connected to the control box (4), the external rearview component (2) is detachably disposed on external rearview mirrors and connected to the control box (4), and the directional structure (3) is detachably disposed on a steering wheel and wirelessly connected to the control box (4); the control box (4) is of a rectangular structure, and is provided with a display screen and control buttons on an upper wall of the control box (4); a control mainboard is arranged in the control box (4), and an OBD (On-Board Diagnostics) adapter cable (42) is connected to the control box (4); the control box (4) is further provided with a plurality of adapter ports (41) and USB interfaces connected to the main body structure (1) and the external rearview component (2);

wherein the main body structure (1) comprises a pair of front dashboard display screens (11), a pair of adapter bases (12), two pairs of adapter arms (13), a plurality of first bolts (14), a support base (15), a swivel base (16), a first swivel arm (17), a second swivel arm (18), an internal rearview screen (19), and a pair of clamping arms (20);

the pair of front dashboard display screens (11) are detachably aligned and spliced, and are connected in series via a first wire; the pair of adapter bases (12) are both inverted-H shaped, and symmetrically arranged between and located at a rear side of the pair of front dashboard display screens (1); ends of the two pairs of adapter arms (13) are movably embedded into two ends of the adapter bases (12) by the plurality of bolts (14), and other ends of the two pairs of adapter arms (13) are connected to upper and lower sidewalls of opposite ends of the front dashboard display screens (11) by the plurality of first bolts (14); the support base (15) is of a rectangular structure and provided with a threaded stud on a middle portion of an upper wall of the support base (15), is detachably and threadedly connected to a middle portion of a lower wall of one of the adapter bases (12) by the threaded stud, and is located below the front dashboard display screens (11); one end of the swivel base (16) is detachably and threadedly connected to a middle portion of an upper

wall of other one of the adapter bases (12) and located above the front dashboard display screens (11); the first swivel arm (17) is of a rectangular frame structure, one end of the first swivel arm (17) is movably embedded into an other end of the swivel base (16), and the first swivel arm (17) is able to swivel in the swivel base (16) to adjust an angle; one end of the second swivel arm (18) is detachably clamped into an other end of the first swivel arm (17), and the second swivel arm (18) is able to slide and swivel on the first swivel arm (17), the second swivel arm (18) is of a T-shaped structure and provided with arc-shaped hanging arms (5) on front sidewalls of two ends of the second swivel arm (18); T-shaped through slots are formed in middle portions of ends of the hanging arms (5); the internal rearview screen (19) is detachably disposed on the hanging arms (5); the pair of clamping arms (20) are both T-shaped, ends of the pair of clamping arms (20) are symmetrically and movably connected to a rear sidewall of the internal rearview screen (19), and other ends of the clamping arms (20) run through the slots, respectively;

wherein the external rearview component (2) comprises a pair of external rearview screens (21) and a first pair of claws (22); the pair of external rearview screens (21) are provided with second wires respectively, and the external rearview screens (21) are connected to the control box (4); the pair of claws (22) are detachably disposed on upper walls of the external rearview screens (21), respectively; and the claws (22) are of U-shaped structures, and are able to be clamped onto the external rearview mirrors, respectively;

wherein the directional structure (3) comprises a housing (31), a housing cover (32), an on/off button (33), a rotation sensor (34), a pair of batteries (35), a wireless control module (36), a flywheel (37), a pair of clamping plates (38), and mounting bolts (39);

the housing (31) is of a circular structure and provided with a charging port on a front sidewall of the housing (31); the housing cover (32) is detachably buckled into the housing (31), the on/off button (33) is fixedly arranged on a sidewall of the housing (31) and adjacent to the charging port, and the rotation sensor (34) is fixedly arranged at a middle portion of an inner lower wall of the housing (31), and a rotating shaft of the rotation sensor (34) is concentric with the housing (31);

the pair of batteries (35) are fixedly arranged on the inner lower wall of the housing (31) and respectively located on front and rear sides of the rotation sensor (34); the wireless control module (36) is fixedly arranged on a left side of the rotation sensor (34); the flywheel (37) fixedly sleeves the rotation sensor (34), and is able to rotate through the rotation sensor (34); the pair of clamping plates (38) are both an arched structure with a same diameter; two ends of the pair of clamping plates (38) are in butt joint by the mounting bolts (39), and one end of one of the pair of clamping plates (38) is fixedly arranged on the housing (31).

2. The road simulation test apparatus for a vehicle cab according to claim 1, wherein

the directional structure (3) is mounted on the steering wheel by the pair of clamping plates (38).

3. The road simulation test apparatus for a vehicle cab according to claim 2, wherein

a tilt angle of the internal rearview screen (19) is able to be adjusted by the clamping arms (20).

4. The road simulation test apparatus for a vehicle cab according to claim 3, wherein

the hanging arms (5) are movably clamped onto the internal rearview mirror.

5. The road simulation test apparatus for a vehicle cab according to claim 4, wherein

the control box (4) is provided with a training module, and connected to a vehicle’s system through the OBD adapter cable (42) to be powered.