CLAIMS

1. An equipment mounting system, comprising:

a quick mount track (11) for coupling to a surface (3615), comprising:

a backing plate (15) having a first plate edge (3611), a second plate edge (3612), a first outer slot (20), and a second outer slot (30), wherein the first plate edge (3611), the second plate edge (3612), the first outer slot (20), and the second outer slot (30) are all substantially parallel to each other and run a length (L) of the backing plate (15), and the first plate edge (3611) and the second plate edge (3612) define an outermost part of the backing plate (15) along the length (L) of the backing plate (15);

one or more mounting points (3600) positioned within the first outer slot (20) and the second outer slot (30)

a plurality of diamond contoured target regions (13) spaced in the first outer slot (20) and the second outer slot (30); and

a plurality of half diamond contoured regions (3652) along a common edge (3651), the common edge (3651) is substantially orthogonal to the first plate edge (3611 and the second plate edge (3612),

characterised in that:

the backing plate comprises a plurality of locking pin apertures (60) provided between the first outer slot (20) and the second outer slot (30), each of the locking pin apertures (60) are in alignment with a respective one of the plurality of diamond contoured target regions (13) from each of the first outer slot (20) and the second outer slot (30), the alignment being perpendicular to the first and second outer slots (20, 30) such that any forces exerted on a mount (47, 48, 50, 3500, 3700, 3800, 3850, 3900) coupled to the quick mount track (11) are transferred directly through the quick mount track (11) to the one or more mounting points (3600) due to each of the locking pin apertures (60) positioning mounting studs of the mount directly over the top of the one or more mounting points (3600).

2. The equipment mounting system of claim 1, wherein the surface (3615) is a surface of a mobile object, an emergency transportation vehicle, an ambulance or a helicopter.

3. The equipment mounting system of claim 1, wherein the first plate edge (3611) is tapered, and the second plate edge (3612) is tapered.

4. The equipment mounting system of claim 1, wherein the mounting track (11) further comprises:

a flush mounting surface defined along the first plate edge (3611) and the second plate edge (3612) to create and maintain a seal between the quick mount track (11) and the surface (3615); and

a chase (3605) disposed in the quick mount track (11) and defined by the flush mounting surface (3610).

5. The equipment mounting system of claim 1, further comprising a track clip (3400) removably coupled to the quick mount track (11) and comprising:

a base (3405) having a slot flange (3425) and a base width (3444) to allow the base (3405) to slidably couple with one of the outer slots (20, 30) of the quick mount track (11) and to minimize movement of the track clip (3400) in relation to the quick mount track (11);

a coupler (3410) is coupled to the base (3405) along a coupler face (3408), the coupler face (3408) is opposite from the slot flange (3425) on the base (3405);

a leverage feature (3415) is coupled to the base (3405) along a carrier axis (3440), the carrier axis (3440) is substantially orthogonal to the coupler face (3408); and

a carrier (3420) that slidably couples on the quick mount track (11) and comprising a first extension (3455) and a second extension (3460) operable to engage an open region of the track (11) when the track clip (3400) is in an engaged position, the first extension (3455) is opposite the second extension (3460) on the carrier (3420), the carrier (3420) slidably

couples the leverage feature (3420) along the carrier axis (3440) and is biased in the engaged position by a spring (3434).

6. The equipment mounting system of claim 5, wherein the carrier (3420) further comprises a first lip (3445) and a second lip (3450) coupled to the carrier (3420), and wherein a transition force is applied to the first lip (3445) and the second lip (3450) such that the carrier (3420) is transitioned between the engaged position to a disengaged position, the engaged position secures the track clip (3400) to the quick mount track (11), and the disengaged position releases the track clip (3400) from the quick mount track (11).

7. The equipment mounting system of claim 6, wherein the carrier further comprising a snubber pad (3470) coupled to the carrier (3420) and the snubber pad (3470) is retracted into the base (3405) when the track clip (3400) is in the disengaged position and the snubber pad (3470) is extended beyond the base (3405) when the track clip (3400) is in the engaged position, the snubber pad (3470) prevents the track clip (3400) from moving in relation to the quick mount track (11) while the track clip (3400) is coupled to the quick mount track (11) in the engaged position.

8. The equipment mounting system of claim 5, wherein the coupler (3410) is a hook, a peg, a clasp, a latch, a light, or a u-shaped ring and the base (3405) is covered in an anti-rattle coating that creates an interference fit between the track clip (3400) and the quick mount track (11).

9. The equipment mounting system of claim 1, wherein the quick mount track (11) further comprises a track key (3630), the track key (3630) slidably couples with a key aperture (3640) provided in the track (11).