



The Patented **360HD™ Mounting System** with 'aim-and-lock technology' is an important new design feature. The most discriminating lighting design can be degraded by bad aiming or by the fixture's lack of ability to maintain its aiming position. The 360HD™ Mounting System solves both of these problems. By combining several mechanical, engineering and design techniques, the 360HD™ Mounting System creates the 'aim-and-lock technology'.

The 360HD™ is made up of three machined aluminum components: the short knuckle, the long knuckle, the mounting nipple, two stainless steel, hex head, aiming lock screws, four high temperature 'O' rings. The short knuckle mounts to the back of the fixture and incorporates an 'O' ring to insure a positive seal between the knuckle and the fixture housing. The long knuckle incorporates the aiming lock screws that lock the horizontal (rotational) and vertical-aiming positions. The mounting nipple is threaded for 1/2" mounting and incorporates two 'O' rings, one at its base to create a seal between the nipple and the device to which it is mounted and one at the top to create a seal between itself and the inside of the long nipple. Stainless steel pins are used to create a 360° stop so that the fixture wiring cannot be damaged during rotational aiming.

The 'aim-and-lock technology' allows the designer to rotate and aim the fixture without the use of tools. The horizontal (rotational) aiming and the vertical aiming will hold in place by means of two mechanical compression designs. This means the designer can make those very important, very slight *tweaking* adjustments without the redundant tightening and loosening that most knuckles require. Once adjusted, and with the use of a single tool, the horizontal (rotational) and the vertical aiming is locked into place by tightening the large, recessed locking screws that are located directly above and in-line with each other. The mechanical compression fit of these precisely-machined tapers create a complete *positive lock*. This eliminates the need for serrations as found on most knuckles which allows only incremental aiming and therefore *limited aiming*. The 'O' ring between the long and the short knuckle not only provides a water-tight seal, but it also puts a pressure loading on the threads of the vertical-aiming lock screw so that vibrations will not cause the locking screw to loosen. This happens quite often with most other knuckles. The use of machined 6061-T6 aluminum alloy provides mechanical strengths far beyond that of any cast knuckle. This ensures that the **360HD™ Mounting System** is the **strongest** part of the lighting fixture **not the weakest!**

