Nauticomp to demonstrate Marine LED display waterproof test at Miami International Boat Show

At the 2011 Miami International Boat Show (Electronics Room booth 1676, Miami Beach Convention Center, February 17-21), marine LED displays manufacturer Nauticomp will immerse a functioning LED display in a tank of water to demonstrate the testing process the company uses to ensure every display leaving the factory is waterproof to Ingress Protection (IP) ratings high enough to withstand harsh conditions in the marine environment.

"Ingress protection is the degree to which an electrical device can prevent itself from being invaded by solids or liquids," said Nauticomp President Ryan Moore. "Each IP rating has two numbers. The first number is a measure of how well the object can withstand invasion by solids, ranging from no special protection at all to protection against dust particles. The second number is a measure of how well it can withstand liquids, ranging from no special protection at all to watertight under water," he added.

Nauticomp Displays are designed for and tested to a IP67 rating. The number 6 indicates the unit is completely protected from dust ingress and the number 7 that the unit is submersible to a depth of a meter for one minute. Internally-sealed welds on the all-aluminum housings ensure that the display casings are watertight. All cables and external connections to Nauticomp marine displays are manufactured to an IP68 rating and the second number - 8 - signifies that they are submersible to three meters for an infinite period of time.

During the display assembly process, a silicon sealant is applied at display and back case opening to ensure water tightness on the completed unit. Nauticomp displays also feature Bonded glass, which does not "fog" up when there is a significant change in temperatures. In addition, power supplies to Nauticomp displays are external - to keep the units cool and provide added safety in the event of a power surge.

For more information about Nauticomp marine LED displays, visit booth 1676 in the Electronics Room at the 2011 Miami International Boat Show