Evergreen Systems International

When It Comes to Trackballs, Look No Further!

An Overview of Our Company and Products

Evergreen Systems is recognized world wide as the manufacturer of "survivable" commercial, industrial/military grade trackballs. Since 1983, our reputation has grown and in today's market this corporation is considered the largest and only company professionals can count on.

All Evergreen DIAMOND Trackball designs are based upon an aluminum chassis coupled with fully machined support brackets that provide accurate axis and ball bearing alignment assuring a robust, structural integrity that defies destruction.

All Evergreen trackballs feature diamond hard ground and polished large diameter shafts that will withstand the rigors of thousands of hours of use with no degradation of performance. The shafts will not bend and will not score under the most severe use, abuse and environmental conditions. To complement these shafts, double shielded A.B.E.C. 3/5 stainless steel ball bearings are standard.

One I.R. source for each axis (x) and (y) is used with one sensor featuring internal logic that determines direction of rotation and provides a high resolution (400 counts per revolution of the ball) pulse train. The advantages of using this proprietary sensing system are many, but the most significant ones are the positive directional signals and the use of only one source and sensor thus precluding any signal deterioration over time (a phenomenon common in most quadrature sensing systems). A ground and polished phenolic ball complements this structure.

In all input devices (trackballs, mice and even keyboards) keys have been a source of discussion and sometimes a sore point with both the manufacturer and the end user. Key position, actuating force, tactile feel, audible click and deterioration of performance are just some of the points periodically argued over.

After many years of research and testing, Evergreen has selected what we think is the current best solution and has chosen a button with a unique gold plated stainless steel spring/contact housed in a rugged water resistant structure. As a bonus, the switch has a history of high reliability backed by several million in use.

We believe the selection of these keys complements our dedicated design philosophy to provide the best possible product. Traditionally the position of the keys has always generated heated discussions and many unusual designs throughout the industry. We believe no one design can be optimum to all people. Evergreen, in the initial stages of each design, depended heavily upon human factor studies generated by several branches of the government and inputs from independent industrial corporations who are heavy users for help in positioning the keys.

These recommendations became part of our overall design philosophy. As a result, the DIAMOND series of two inch (2") trackballs has evolved into the XX and the XL models with decidedly different key positioning. There is an Evergreen trackball available to satisfy everyone!

The DIAMOND XX and XL both provide serial (RS232) communications with data formats second to none in the industry. Our firmware provides a wide selection of formats, baud rates, dynamic resolution and remote commands, all switch selectable by the end user, not found in any other product!

Evergreen is truly unique in this area. There has never been a more useful, user-friendly, pointing device offered. All software drivers are emulated in firmware, thus providing full compatibility with almost all workstations currently on the market.

Last, but not least, Evergreen provides a quality input cable using multi-strand 24GA wire with a complete foil shield including drain wire. Flexing this cable will not cause internal separation of conductors and E.M.I. considerations are readily addressed,

Many Evergreen trackballs have been used in military applications requiring adherence to MIL-STD 461C Part 2, as well as restrictive TEMPEST E.M.I. emissions. Repeatedly, our products have met the standards of military/industrial environments and are still providing years of continuous service.

For those wishing to complement the superior design and performance of their SUN workstation with a high quality trackball, a DIAMOND is the answer.